

SECRET

Attachment 2 to

50X1-HUM

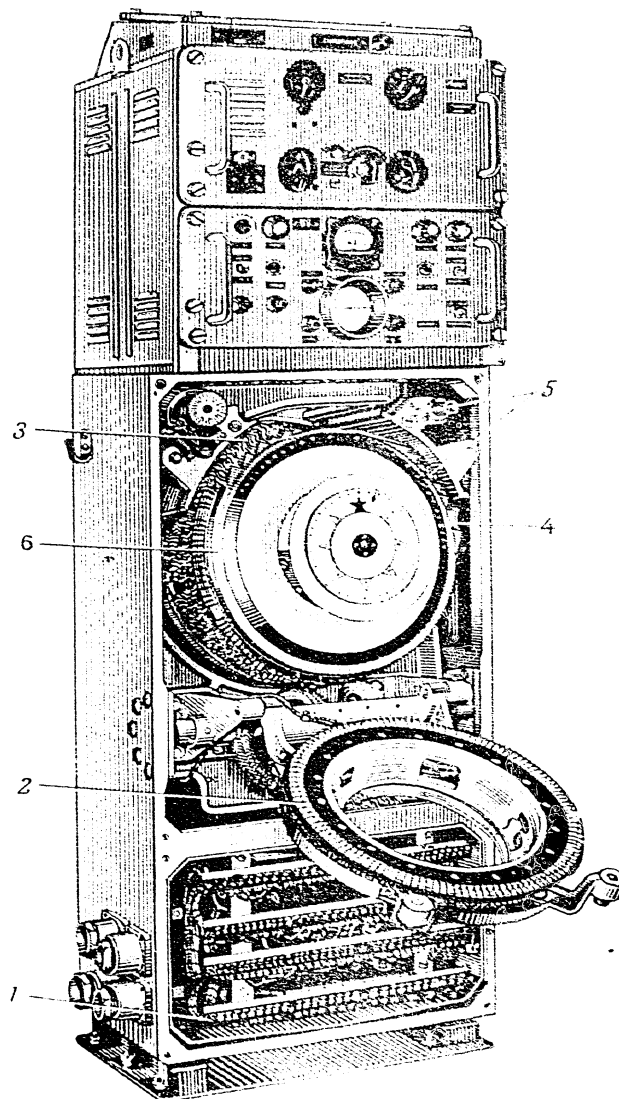
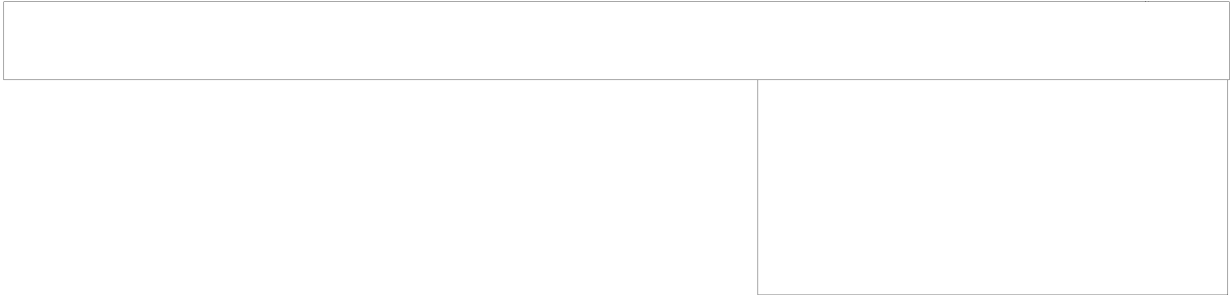


FIG. 7. CONTROL PANEL
(VIEW WITH LIDS REMOVED
AND COMMUTATOR SWUNG
FORWARD)

1 - inlet transformers; 2 - com-
mutator contacts; 3 - right-hand
channel of the two-channel
compensator; 4 - left-hand
channel of the two-channel
compensator; 5 - operating
bars; 6 - inoperative bar.

50X1-HUM

SECRET



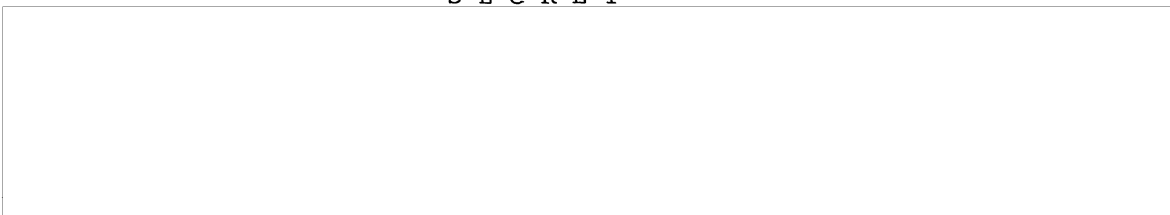
F E N I K S - M E Q U I P M E N T

SCHEMATIC DIAGRAMS

LZh 1.106.205 OP1

50X1-HUM

S E C R E T



50X1-HUM

FENIKS - M EQUIPMENT

SCHEMATIC

DIAGRAMS

ЛЖ1.106.205 ОП1

50X1-HUM

SECRET

50X1-HUM

No.	Designation	Unit code	Description	Qty of sheets	Note
1					
2	ЛК2.032.5010x3	8	Preamplifier	1	
3					
4	ЛК2.032.5010xC	8	Preamplifier	1	
5					
6	ЛК2.032.5020x3	8A	Preamplifier	1	
7					
8	ЛК2.032.5020xC	8A	Preamplifier	1	
9					
10	ЛК2.067.0000x3	KM	Compensator subunit	1	
11					
12	ЛК2.076.0000x3	IV	Control subunit	9	
13					
14	ЛК2.702.0000x3	4	Control panel	1	
15					
16	ЛК2.750.0010x3	2	Noise generator	7	
17					
18	ЛК2.755.0000x3	Tp	Transformer subunit	1	
19					
20	ЛК3.210.0000x3	20A	Rectifier	1	
21					
22	ЛК3.214.0500x3	20	Rectifier	1	
23					
24	ЛК3.620.2010x3	21	Distribution board	1	
25					
26	ЛК2.087.0040x3	20Г	Autotransformer	1	
27					
28	ЛК2.732.0500x3	YC1	Two-channel amplifier	26	
29					
30	ЛК3.602.1000x3	13A	Switch	1	
31					
32	ЛК3.834.0000x3	4-73-2	Acoustic system	1	
33					
34					
35					
36					
37					
38					
39					
40					
41					
42					

50X1-HUM



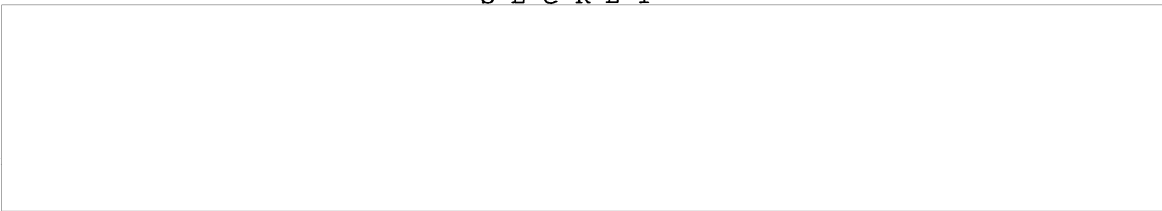
U N I T 8

PREAMPLIFIER

SCHEMATIC DIAGRAMS

LZh 2.032.501 SXE

S E C R E T



50X1-HUM

List of electrical elements

Ref. No.	GOST, Spec. Standard, Drawing	Description and type	Ratings	Qty	Note
Subunits 1-66					
1	AJK 4.719.002	Transformer	110V/10 1-80 turns	66	
2	UTY.01-170-540	Valve 6H30	0.1500A/0.2 1-100 turns	66	
3	OKO.467.003TY	Resistor MAT-0.5-510ohms ± 10%	510ohms	66	
4	Y60.464.002TY	Capacitor OM-6-20-M	20MF	66	
Unit body					
1-14	116.737.136	Terminal plate		14	
18	116.737.133	Terminal plate		1	
20	GOST 9005-59	Neon lamp TH-03	150V	1	
21	OKO.467.003TY	Resistor MAT-0.5-220kilohms ± 11	220 000 ohms	1	
26	BHMNCC 624-52	Capacitor A3T-2 - $\frac{300}{50}$ M	50MF, 300V	1	
27	BHMNCC 624-52	Capacitor K3T-2 - $\frac{450}{20}$ M	20MF, 450V	8	

UNIT 8
Schematic
Diagram

AJK 2.032.501 Gx3

Letter	Sheet	Number of sheets

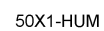
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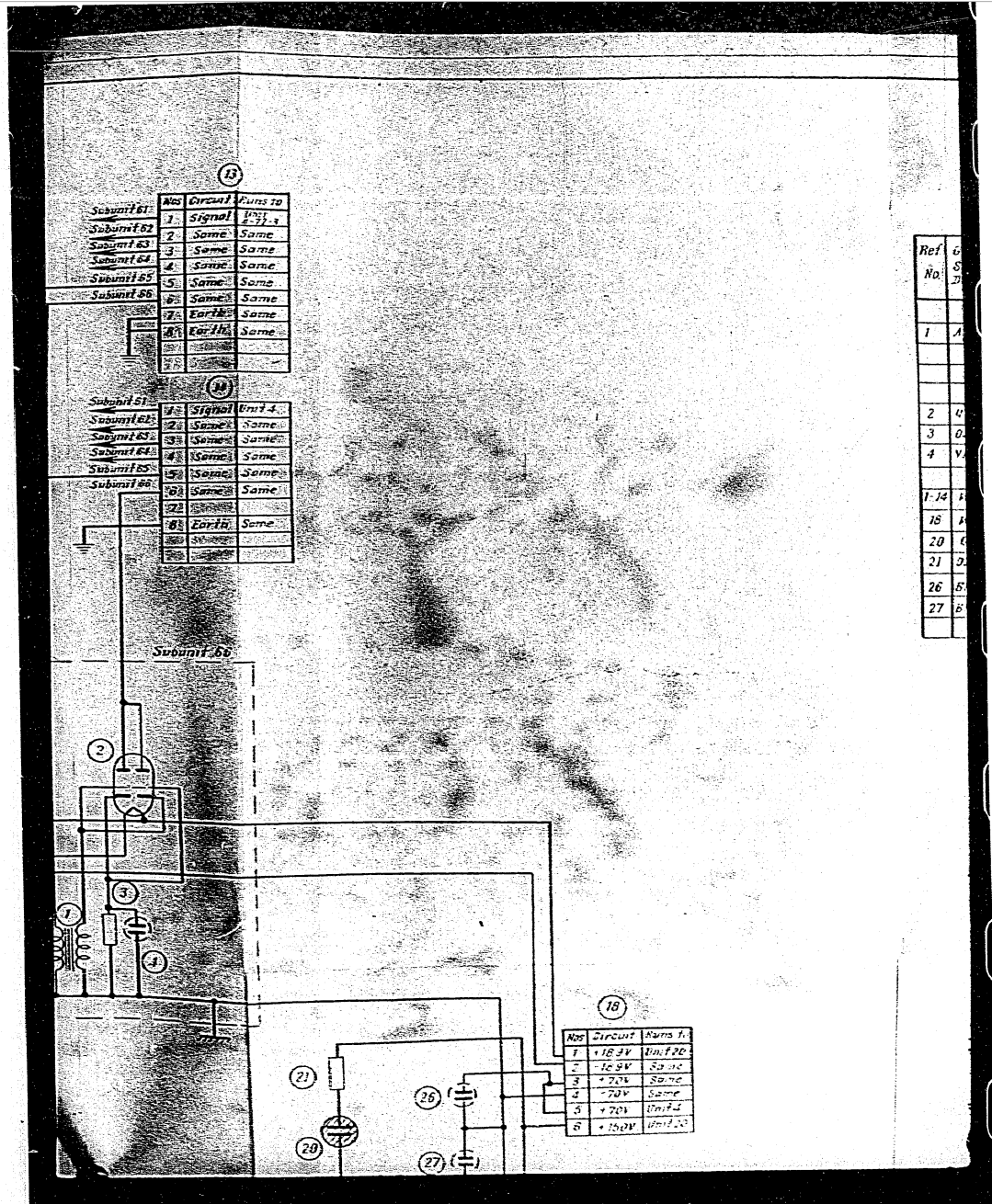
List of electrical elements

Ref No	GOST, Spec., Standard, Drawing	Description and type	Ratings	Qty	Note
		Subunits 1-66			
1	AЖ4 719.002	Transformer	1110×10 1-80 turns	66	
			11-180 turns		
			11-180 turns		
			11-180 turns		
2	НТХ.01-120-540	Valve 6H3П		66	
3	ОЖО.467.003ТХ	Resistor MAT-05-510ohms ± 10%	510ohms	66	
4	ВБ0.464.002ТХ	Capacitor OM-6-20-M	20MF	66	
		Unit body			
1-14	НБ 737.136	Terminal plate		14	
18	НБ 737.133	Terminal plate		1	
20	ГОСТ 9005-59	Neon lamp TH-03	150V	1	
21	ОЖО.467.003ТХ	Resistor MAT-05-220kilohms - II	220.000 ohms	1	
26	БНМНСС 624-52	Capacitor КЭГ-2 - $\frac{300}{50}$ - M	50MF, 300V	4	
27	БНМНСС 624-52	Capacitor КЭГ-2 - $\frac{450}{20}$ - M	20MF, 450V	8	

50X1-HUM

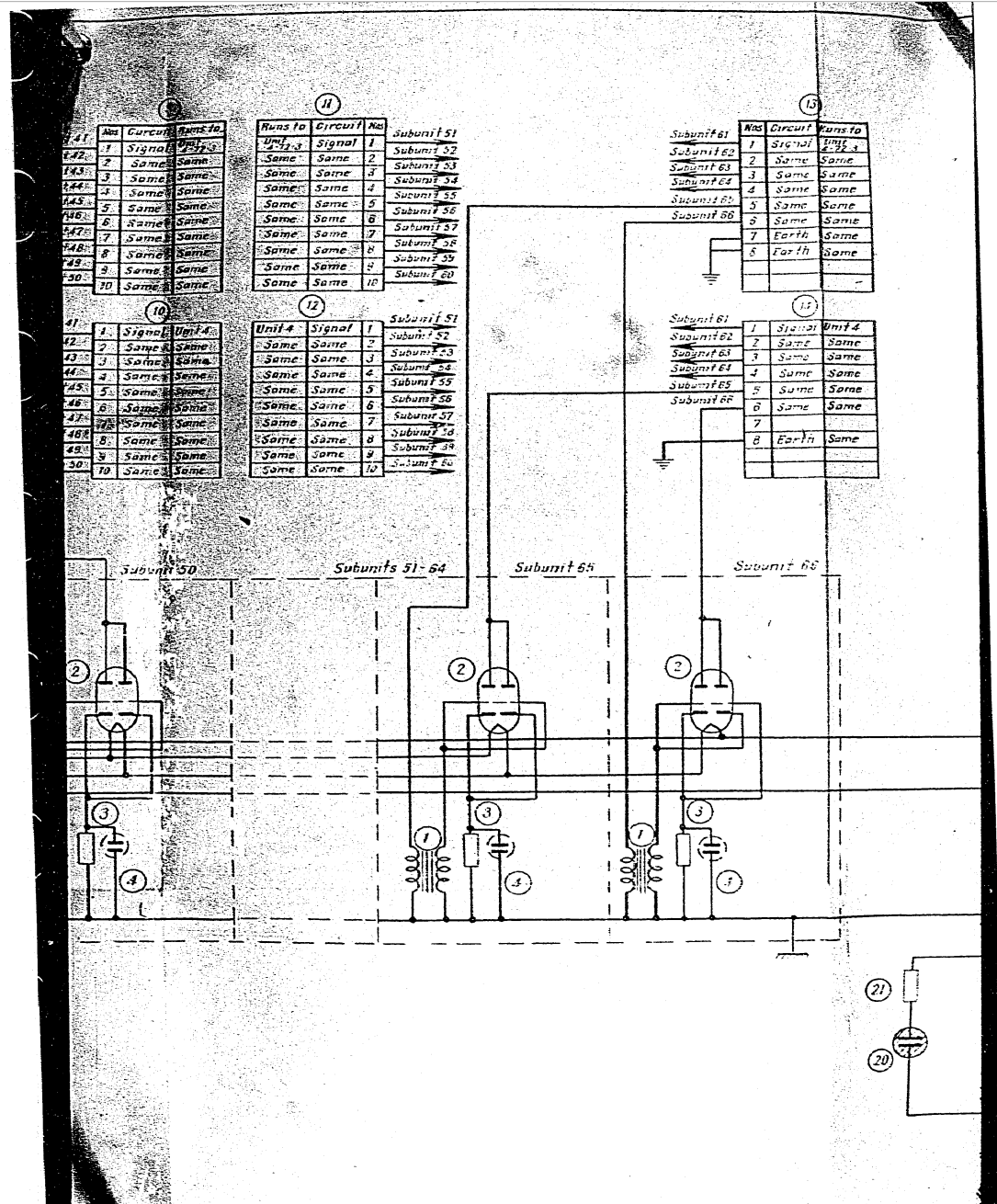


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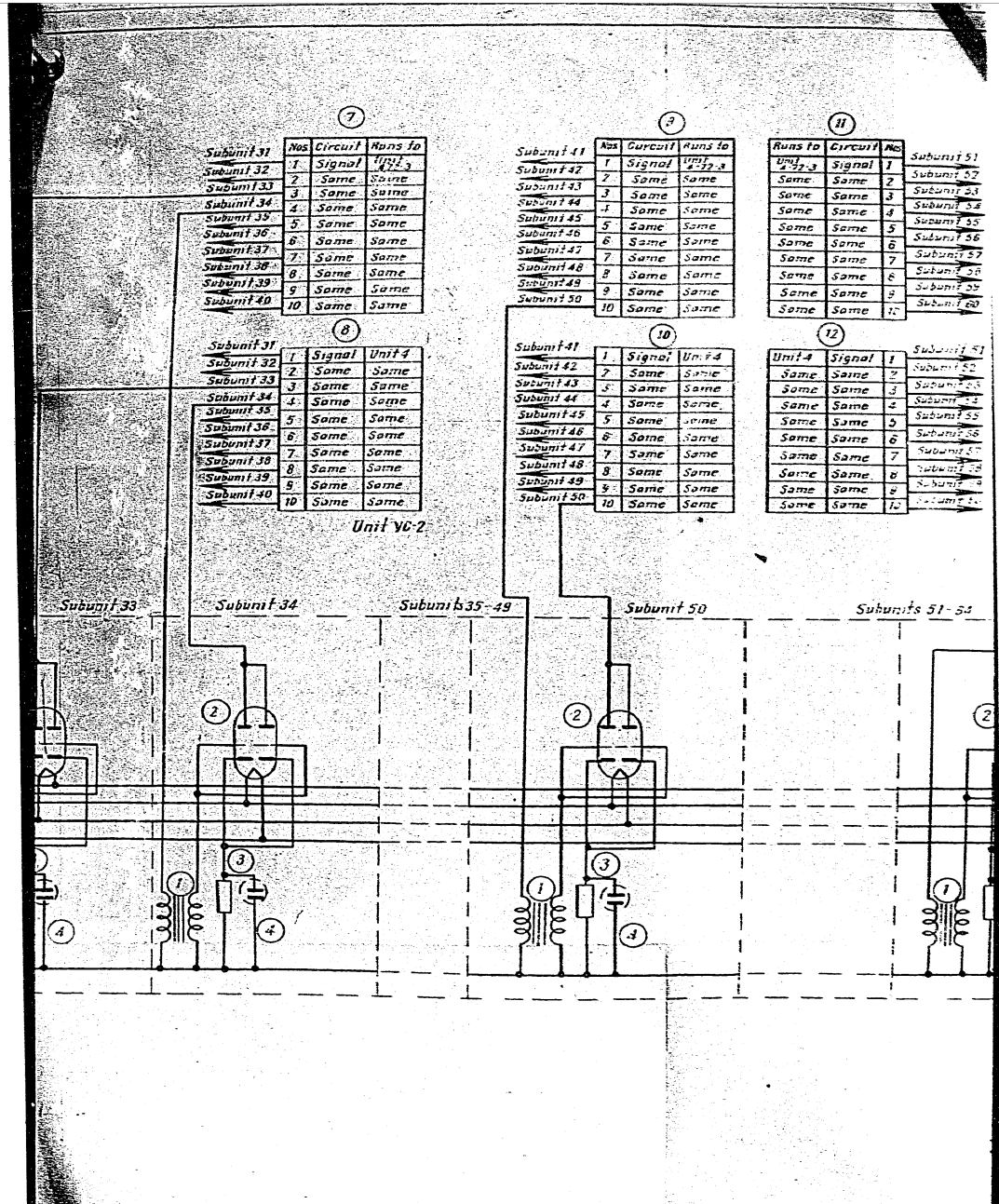
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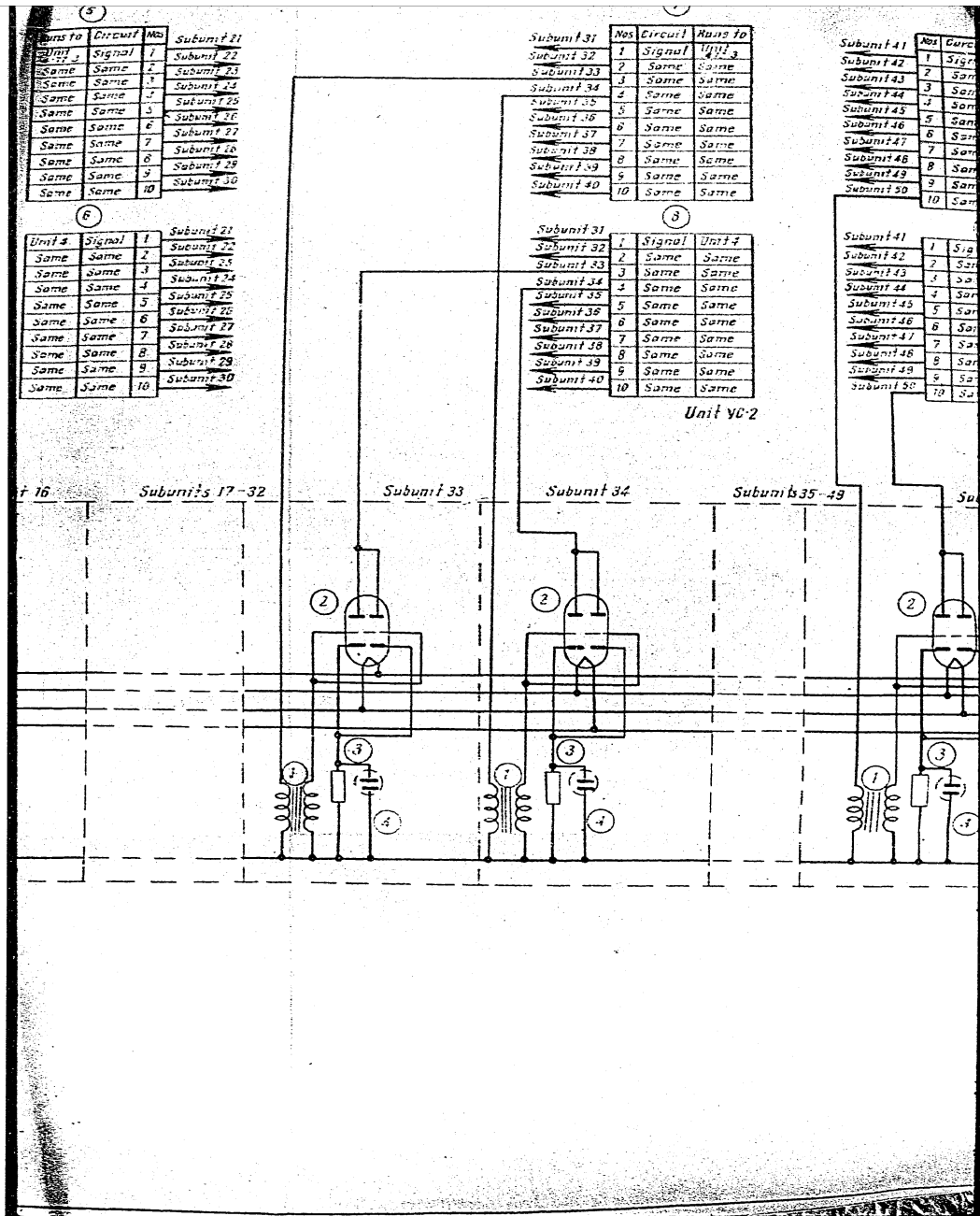
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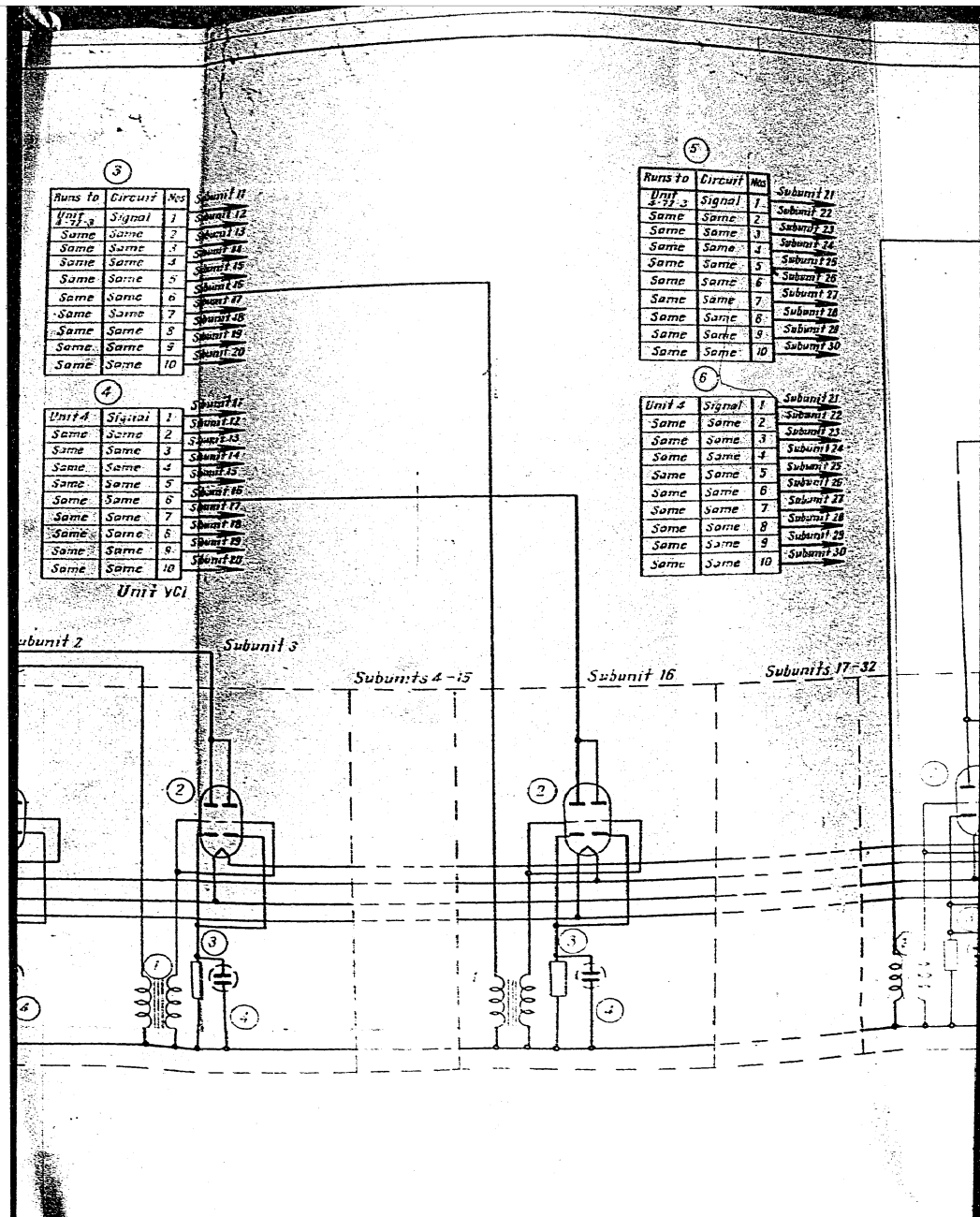
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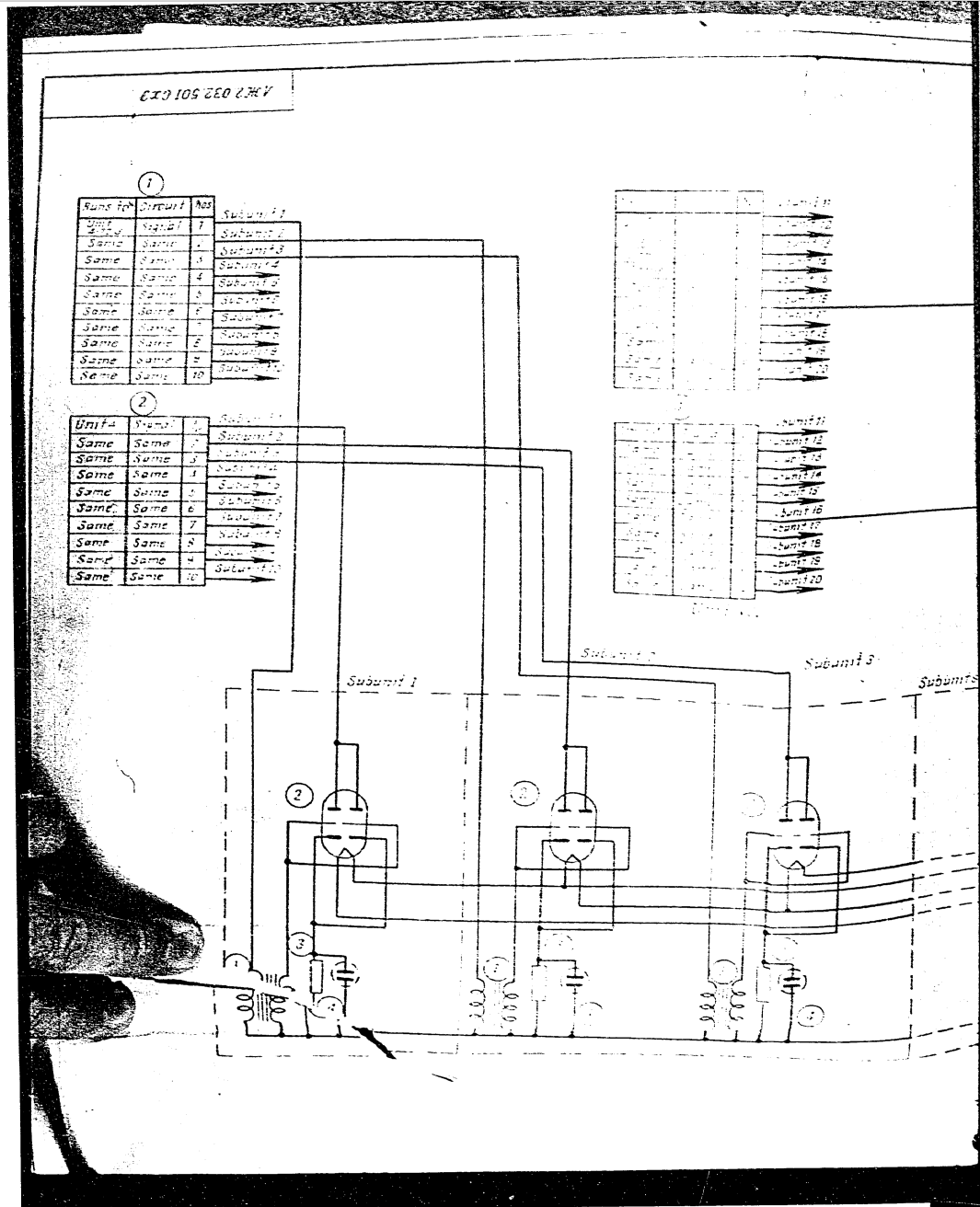
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U N I T 8

PREAMPLIFIER

CONNECTION DIAGRAM

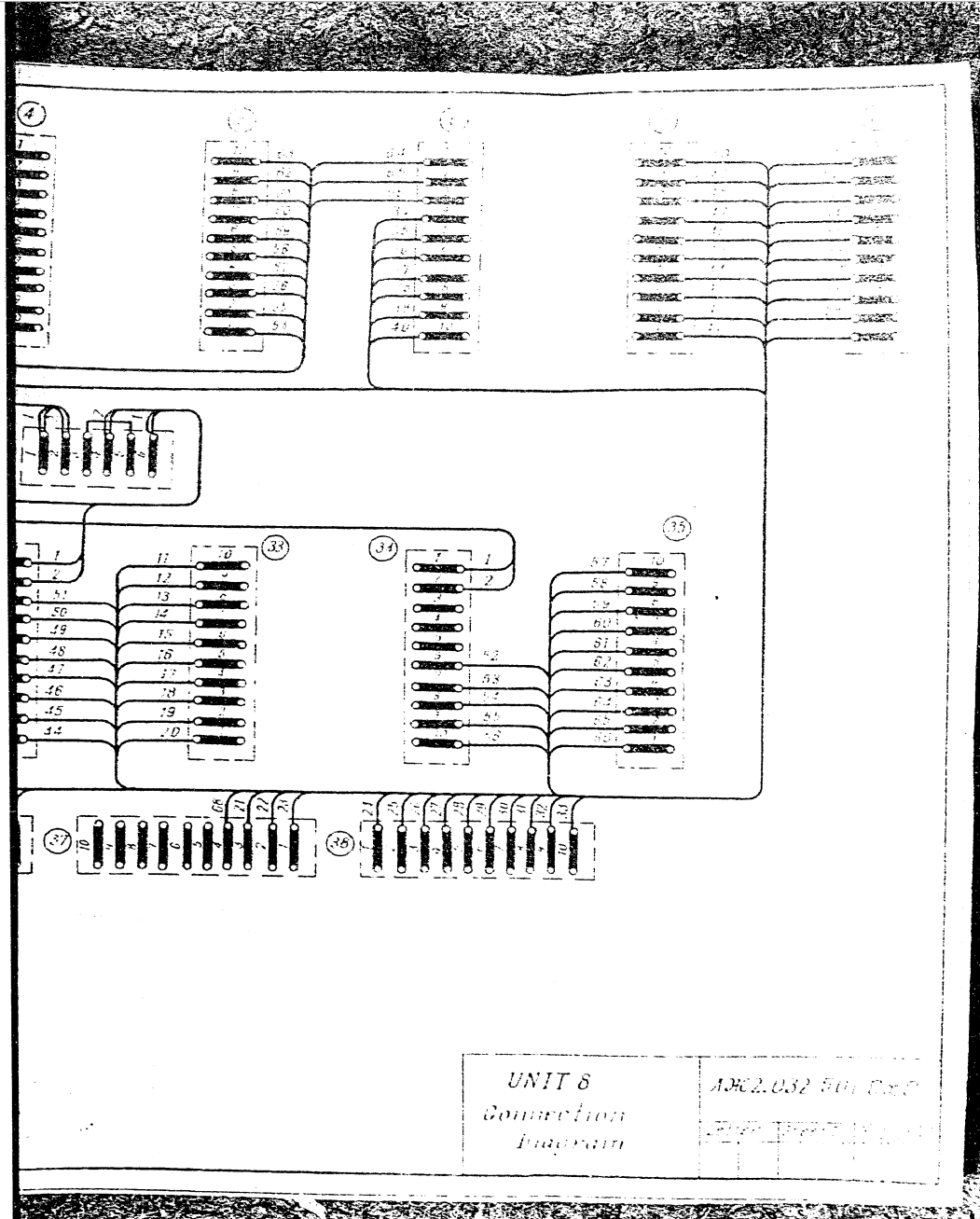
LZh 2.032.501 SXS

S E C R E T



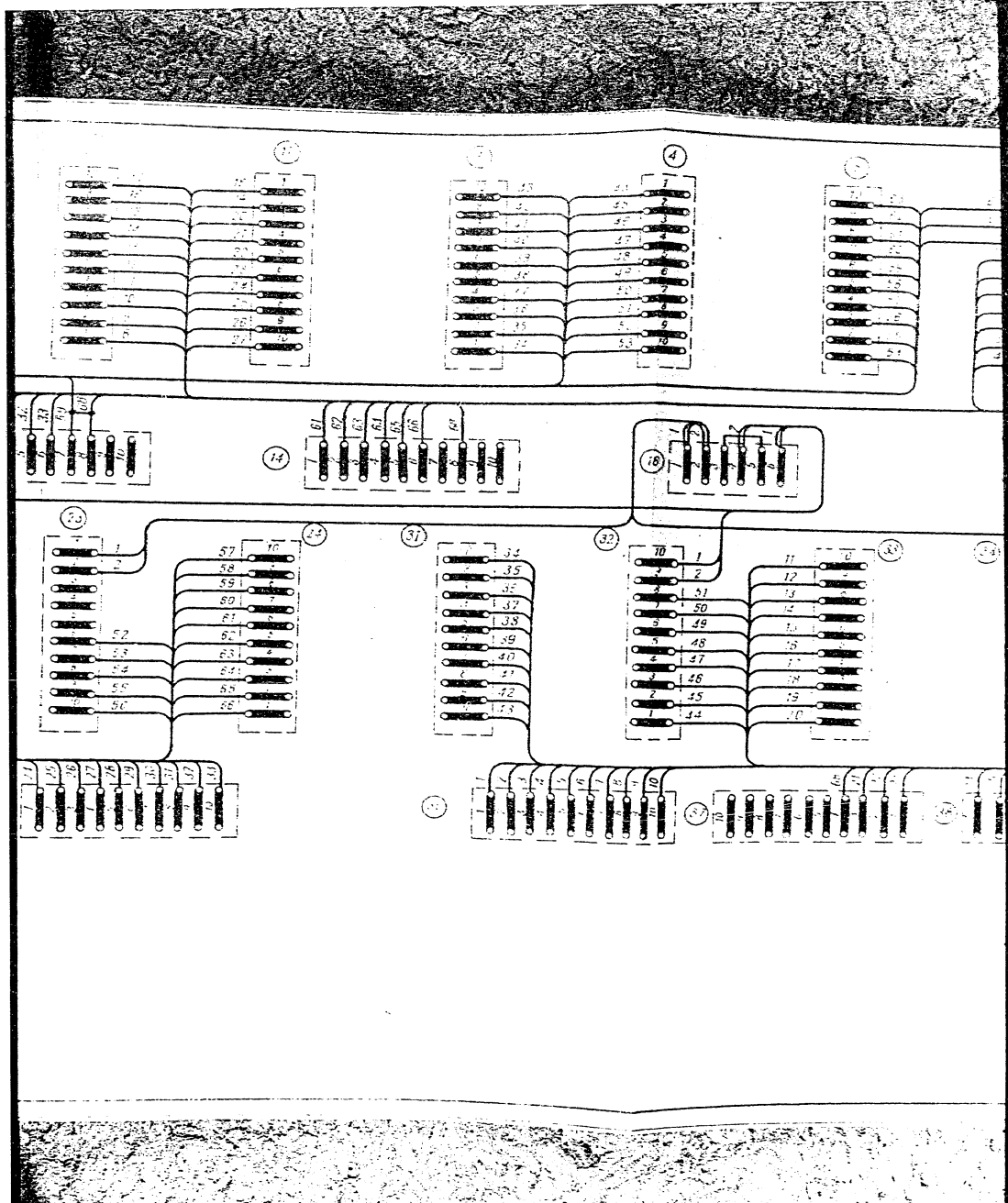
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50X1-HUM

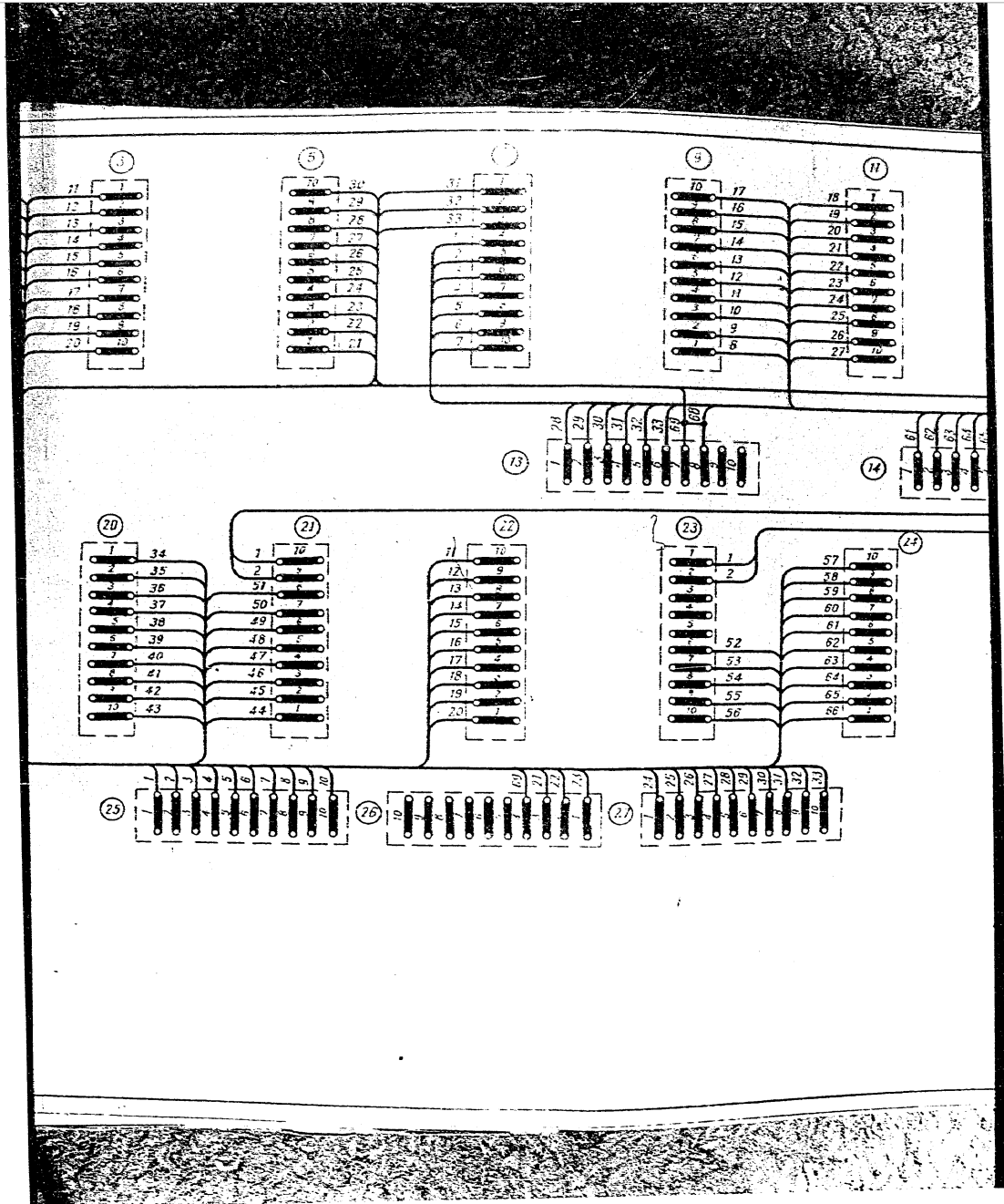
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50X1-HUM



50X1-HUM



50X1-HUM



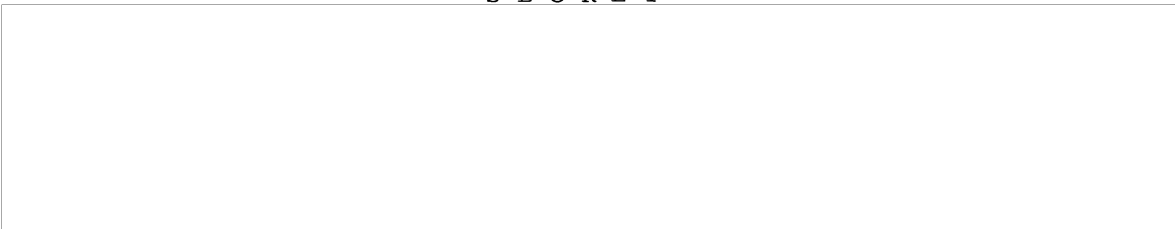
U N I T 8A

PREAMPLIFIER

SCHEMATIC DIAGRAM

LZh 2.032.502 SxE

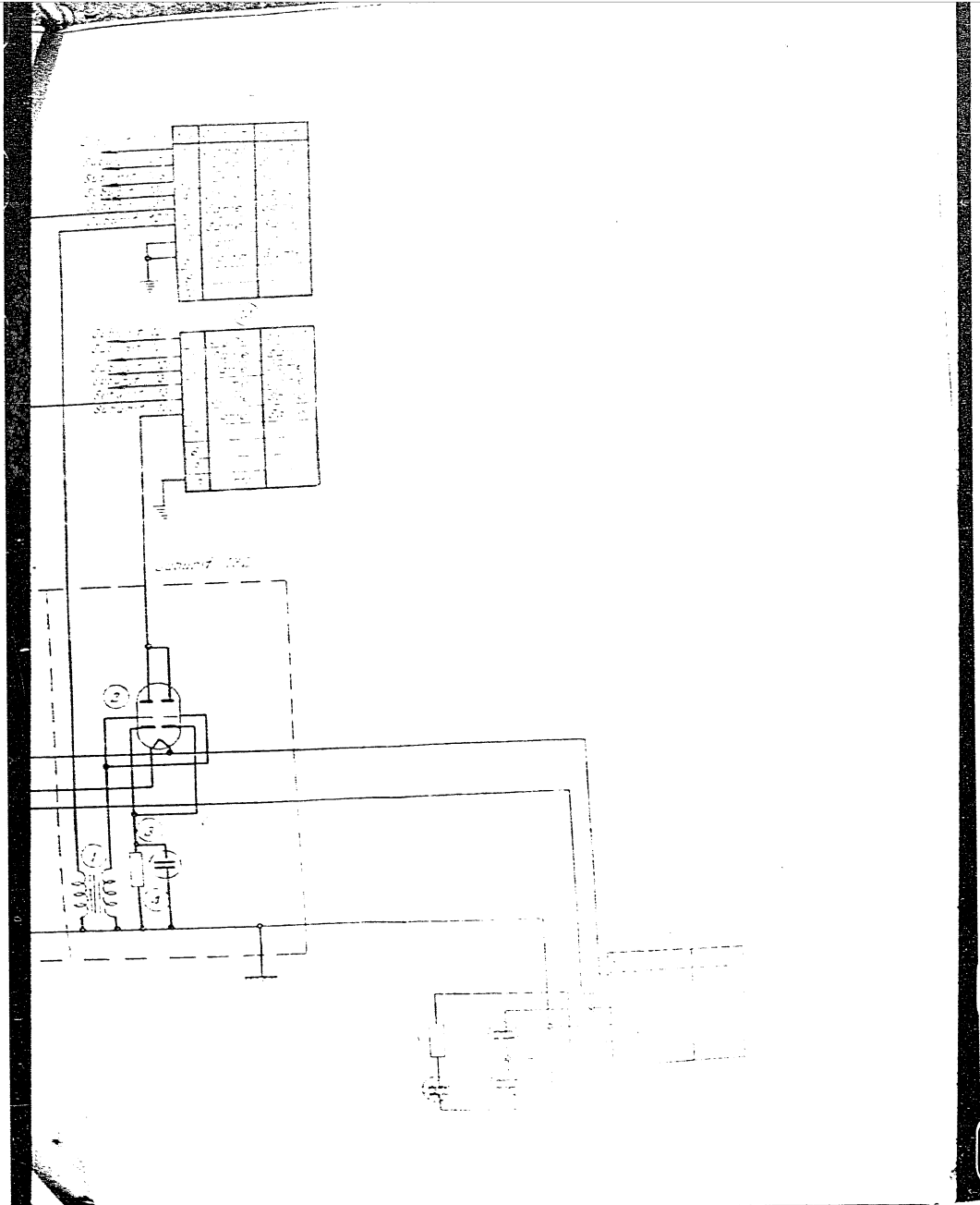
S E C R E T



50X1-HUM

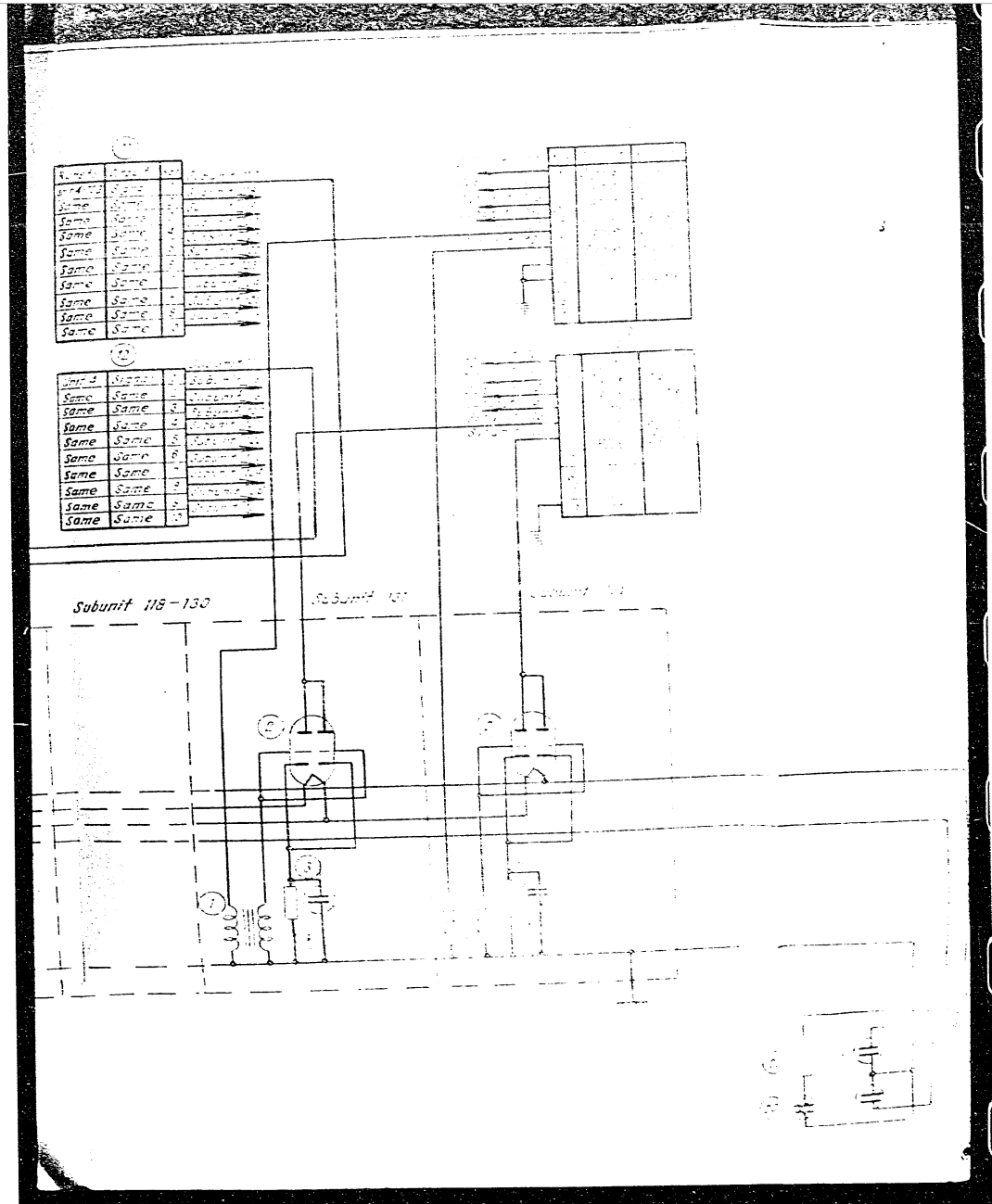
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		Aluminum			
		Brass			
		Copper			
		Iron			
		Lead			
		Mercury			
		Platinum			
		Silver			
		Gold			
		Carbon			
		Graphite			
		Fluorine			
		Chlorine			
		Bromine			
		Iodine			
		Hydrogen			
		Oxygen			
		Nitrogen			
		Argon			
		Krypton			
		Xenon			
		Radium			
		Polonium			
		Astatine			
		Francium			
		Actinium			
		Thorium			
		Uranium			
		Neptunium			
		Plutonium			
		Americium			
		Curium			
		Berkelium			
		Californium			
		Einsteinium			
		Fermium			
		Mendelevium			
		Nobelium			
		Lanthanum			
		Cerium			
		Praseodymium			
		Neodymium			
		Europium			
		Gadolinium			
		Terbium			
		Dysprosium			
		Ytterbium			
		Lutetium			
		Hafnium			
		Tantalum			
		Tungsten			
		Rhenium			
		Osmium			
		Iridium			
		Rhodium			
		Palladium			
		Silver			
		Copper			
		Gold			
		Platinum			
		Palladium			
		Rhodium			
		Ruthenium			
		Rosetta			
		Mercury			
		Lead			
		Iron			
		Aluminum			
		Steel			
		Brass			
		Copper			
		Carbon			
		Graphite			
		Fluorine			
		Chlorine			
		Bromine			
		Iodine			
		Hydrogen			
		Oxygen			
		Nitrogen			
		Argon			
		Krypton			
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		Polonium			
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		Iridium			
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		Gold			
		Platinum			
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		Ruthenium			
		Rosetta			
		Mercury			
		Lead			
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50X1-HUM



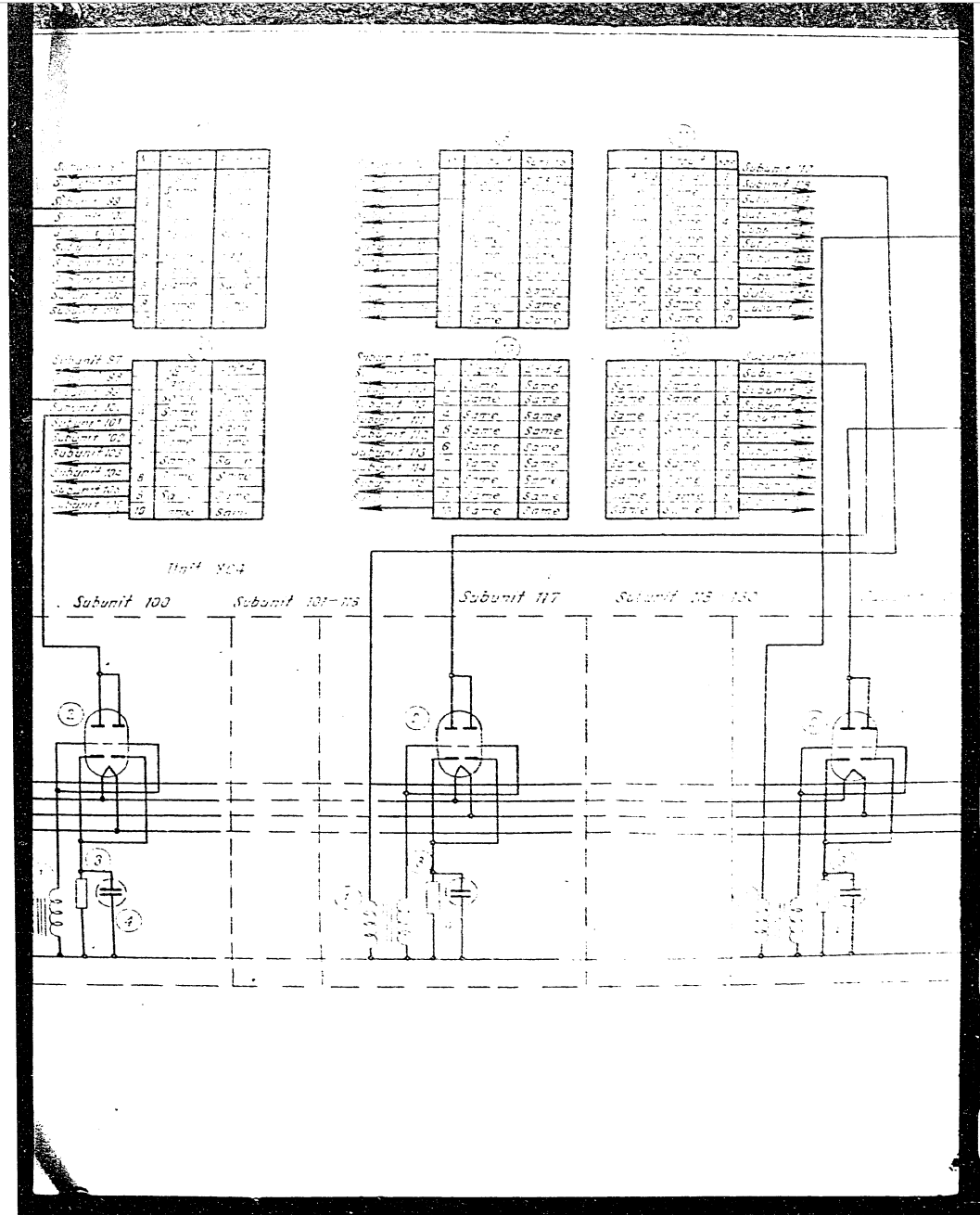
50X1-HUM

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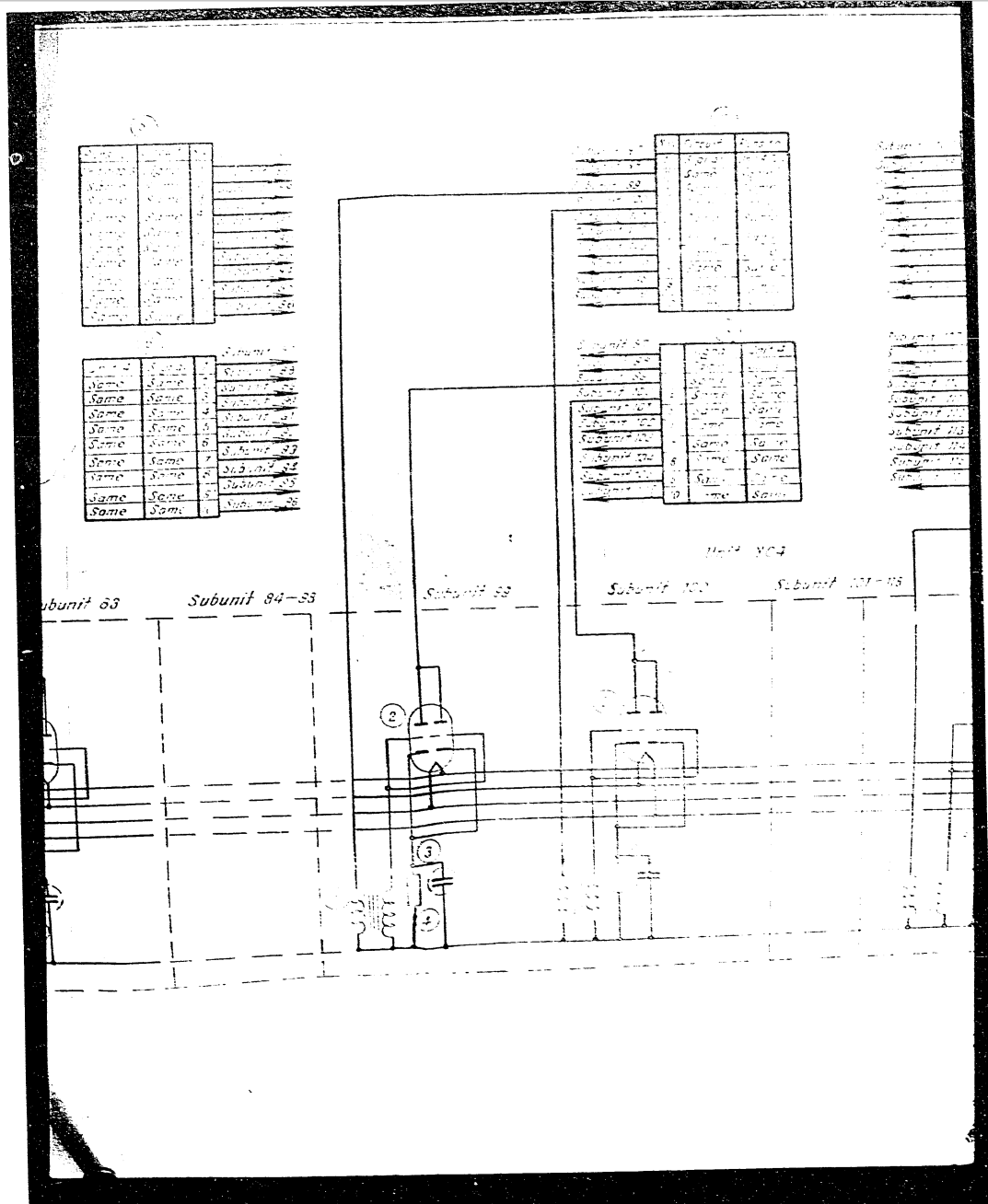
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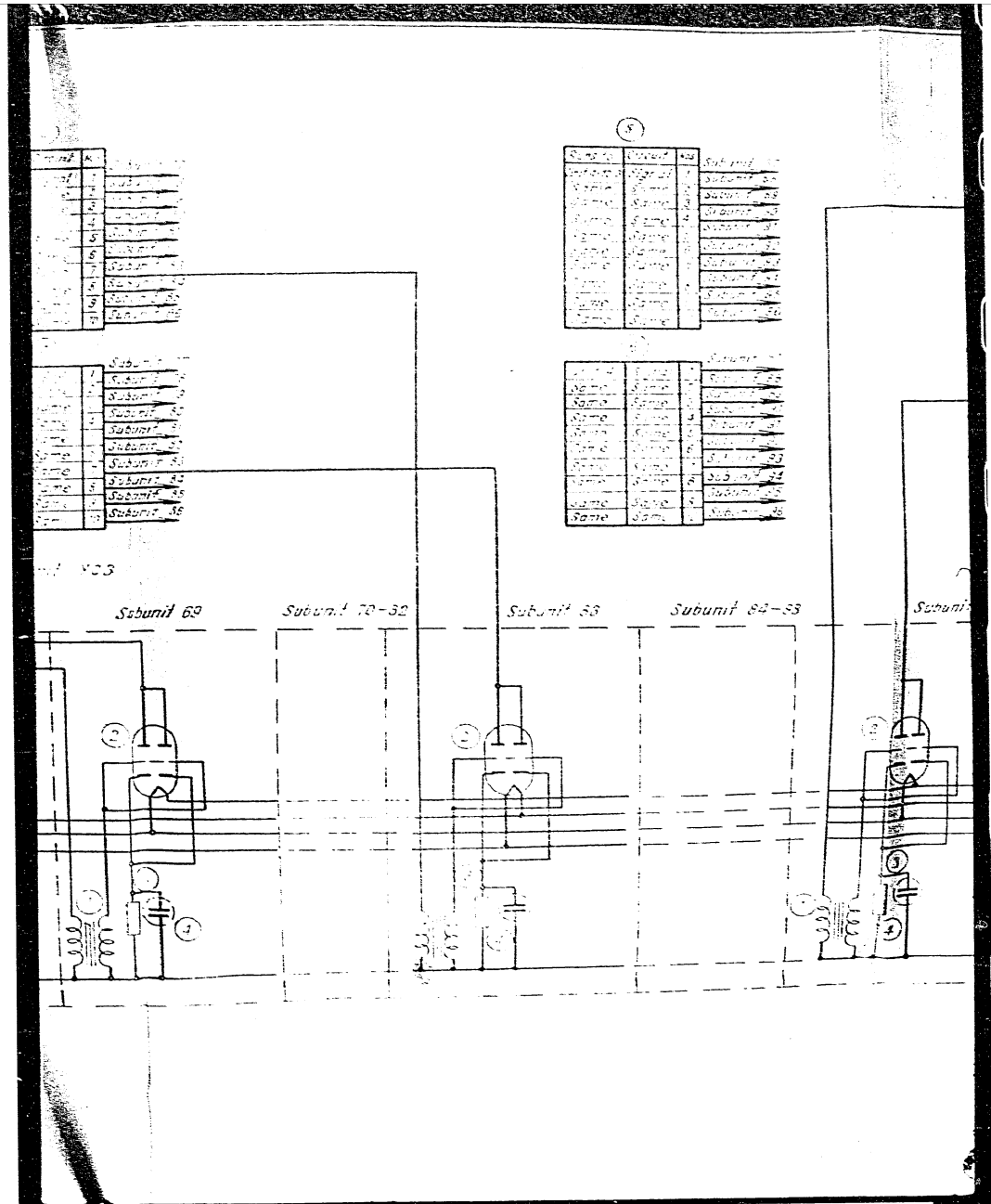
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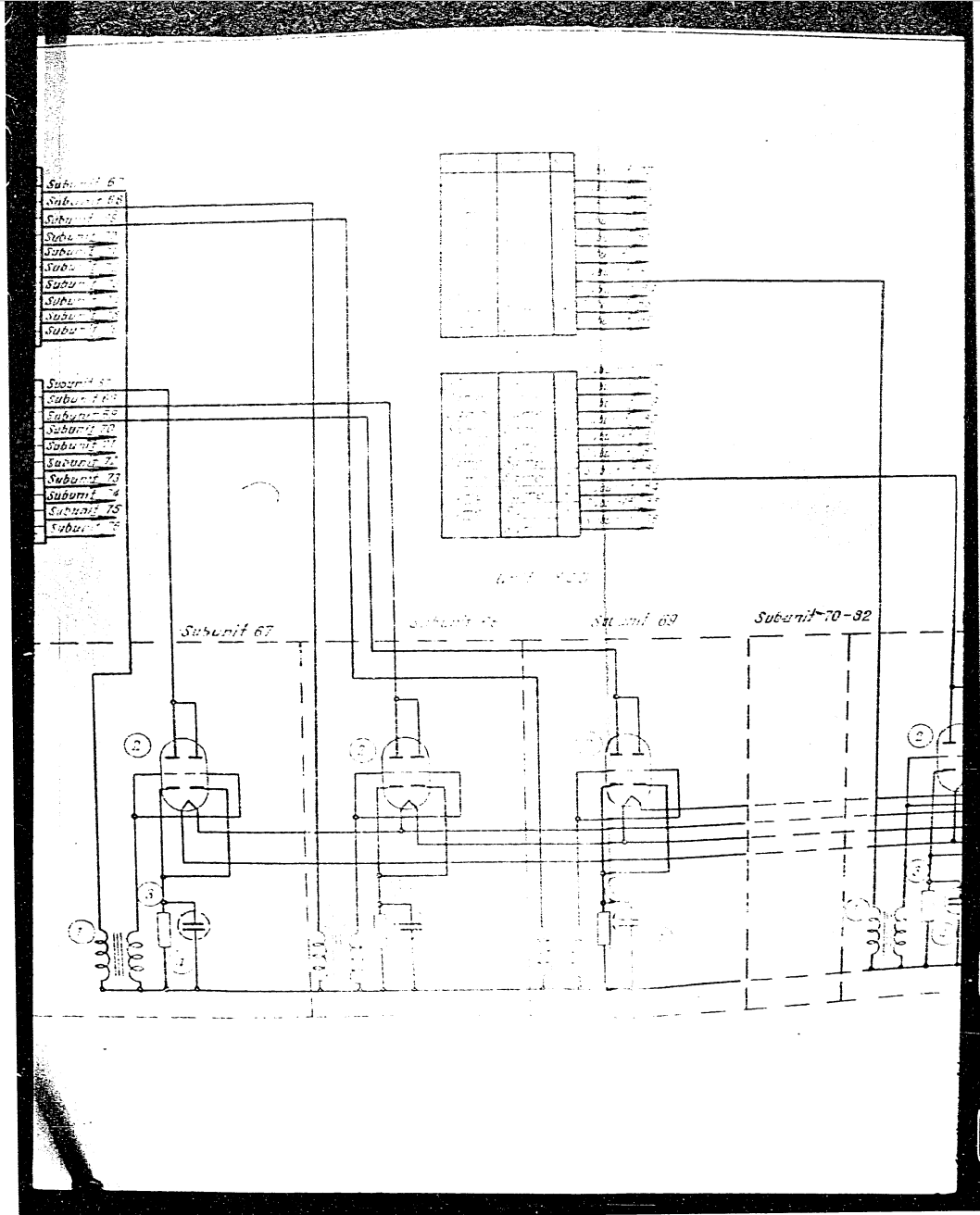
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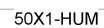


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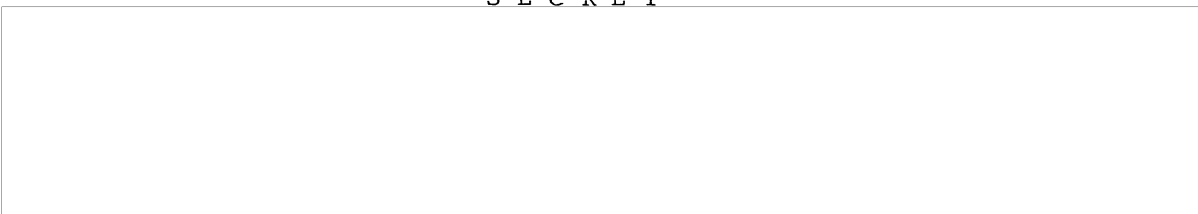
U N I T 8A

PREAMPLIFIER

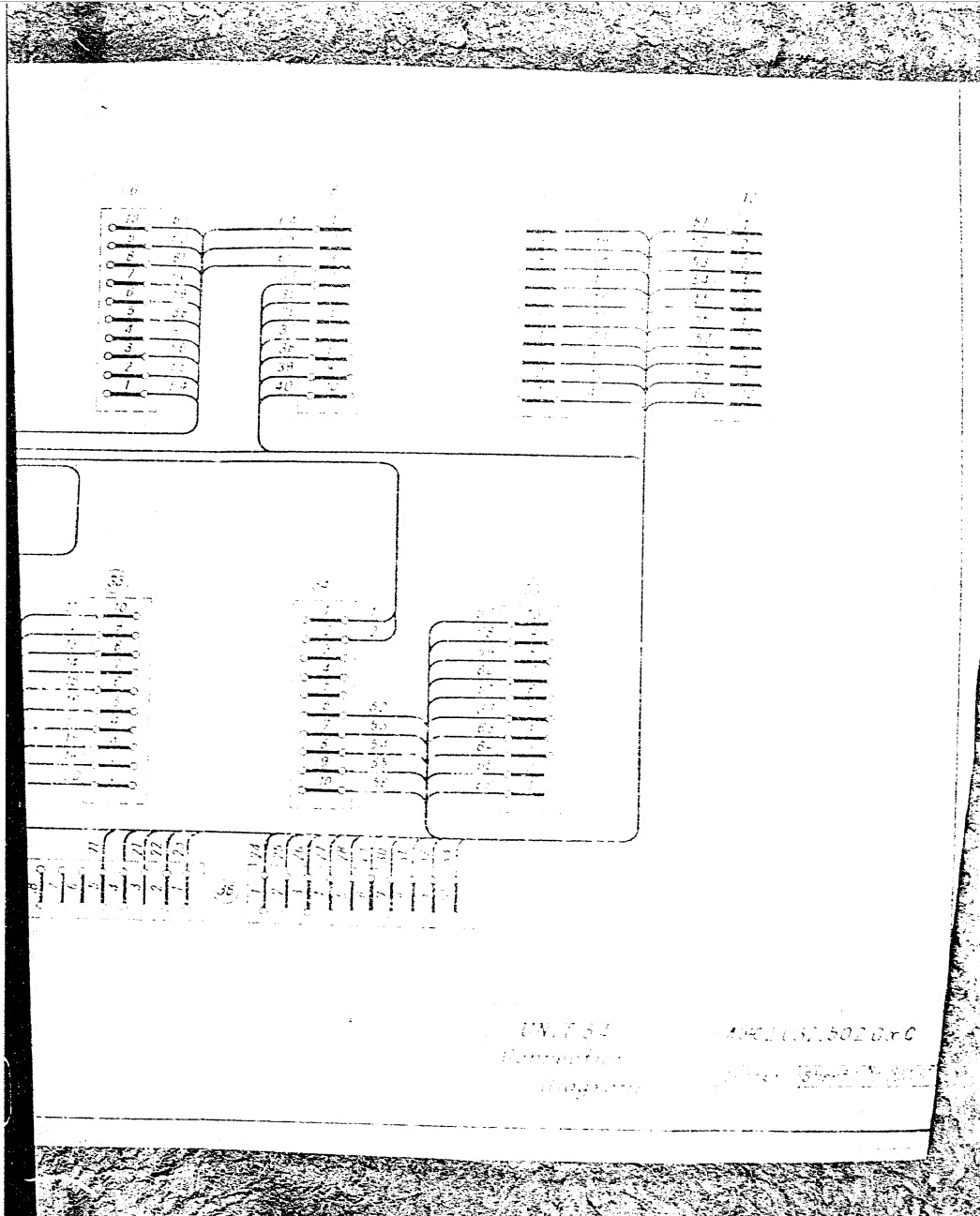
CONNECTION DIAGRAM

LZh 2.032.502 SXS

S E C R E T

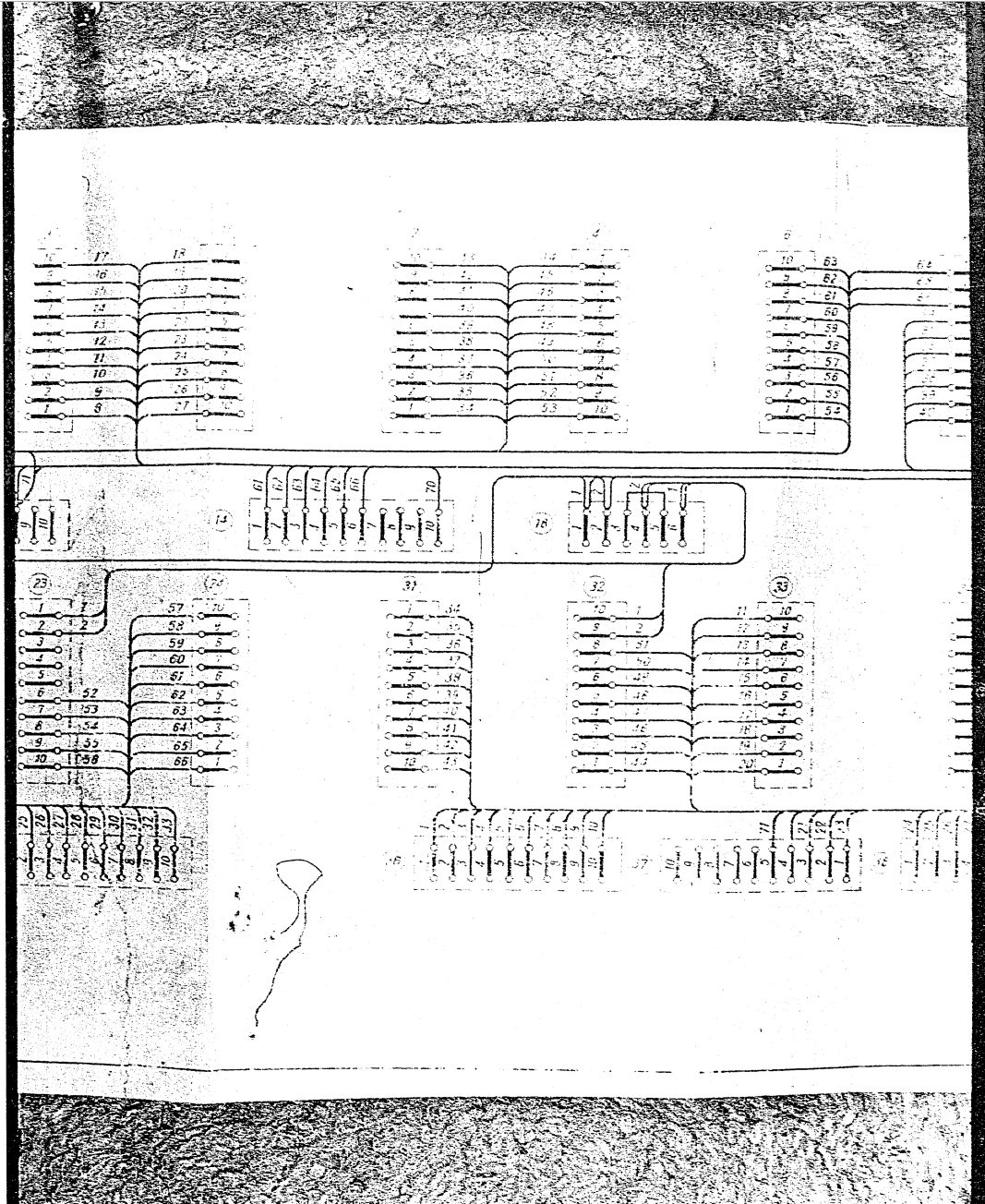


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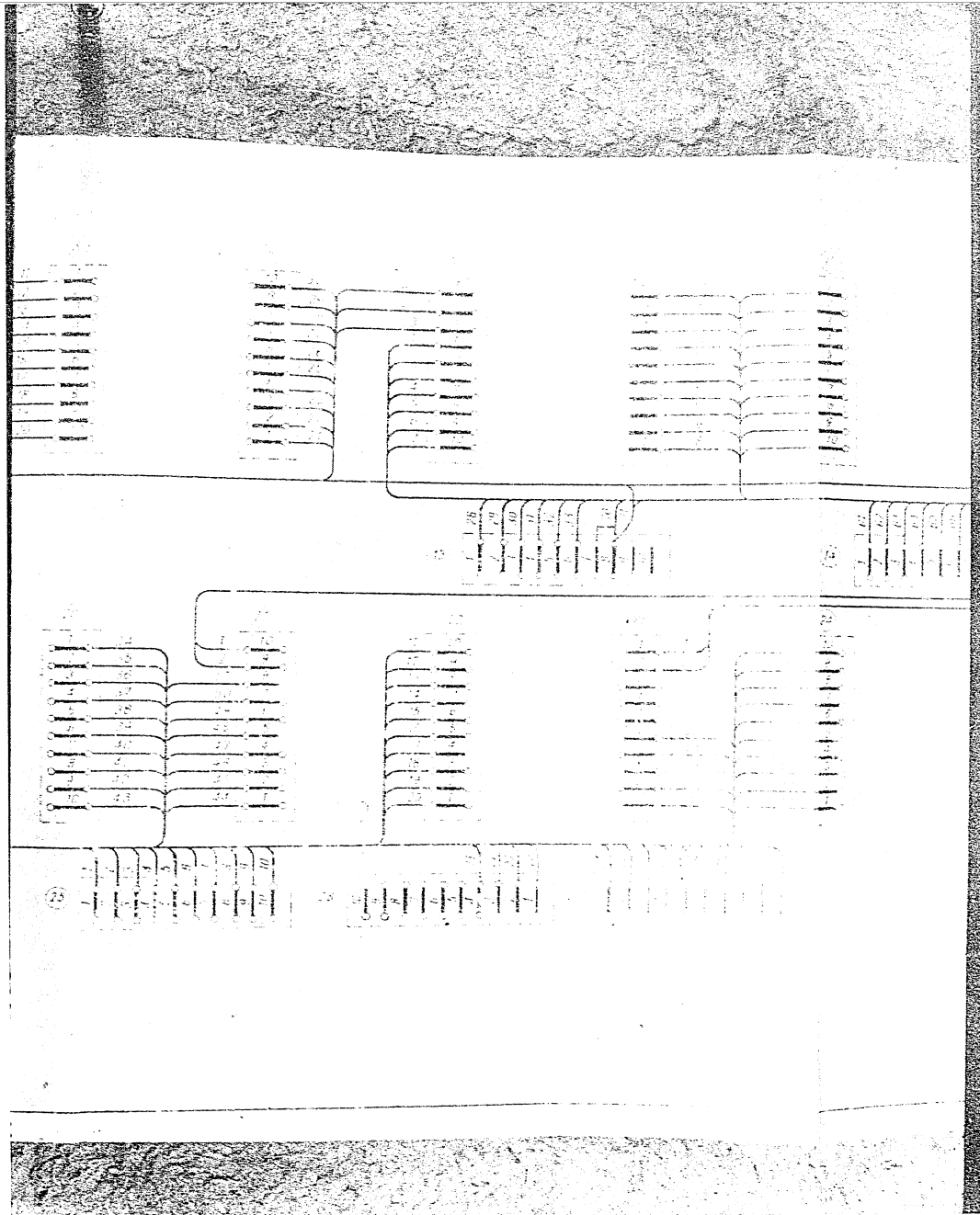
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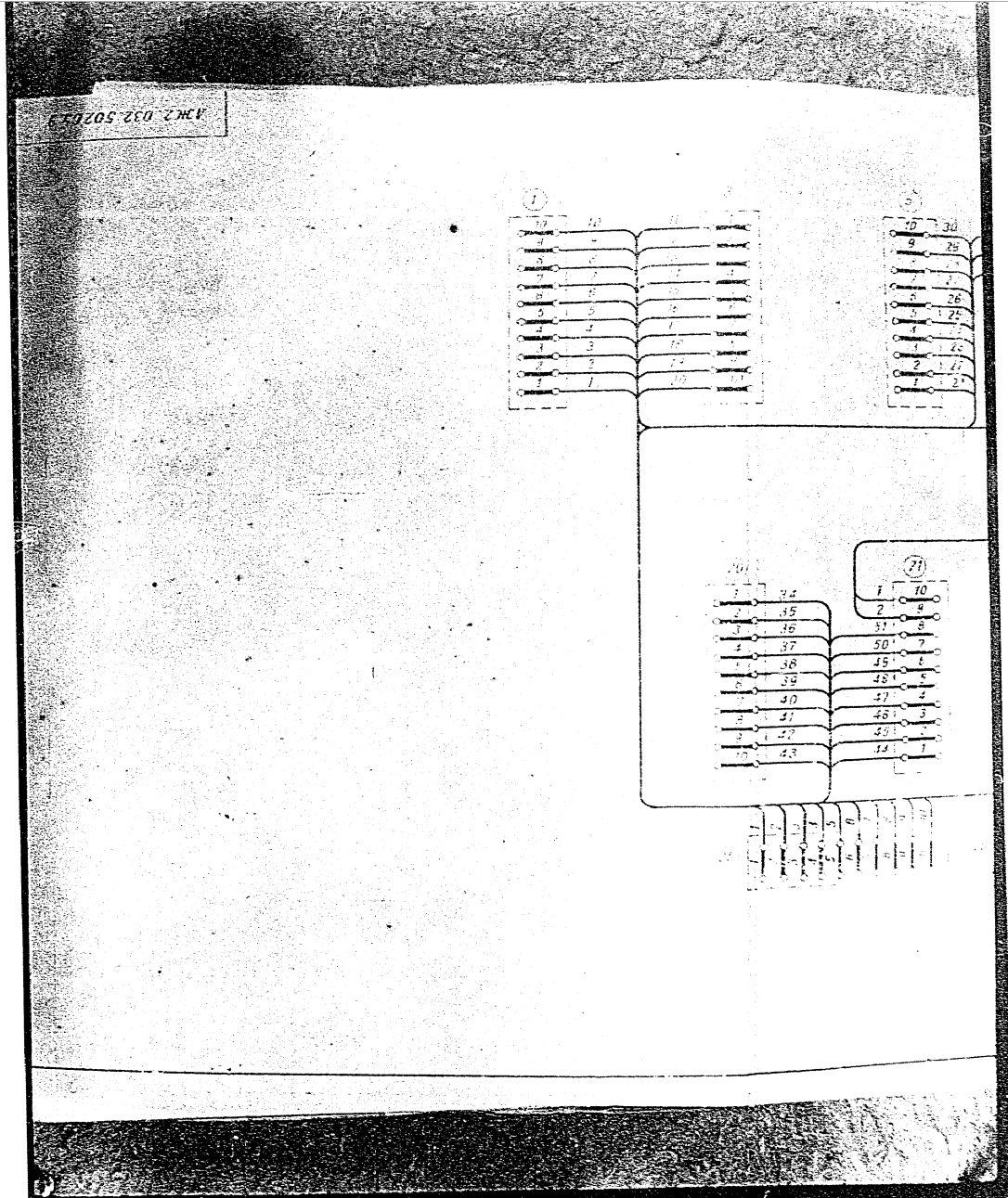


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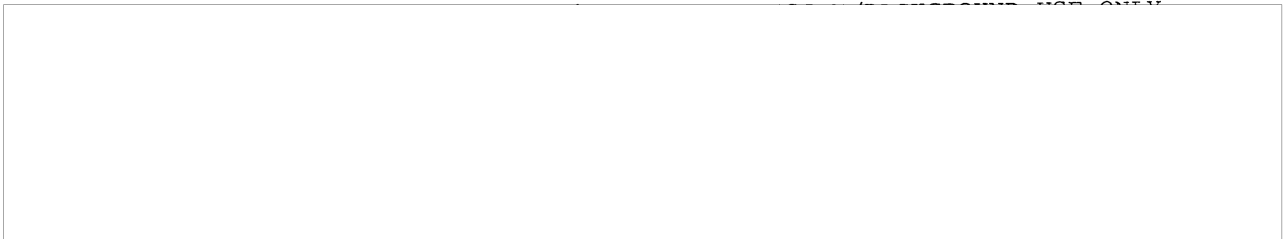
KM

C O N T R O L S U B U N I T

SCHEMATIC DIAGRAM

LZh 2.067.000 SXE

S E C R E T



50X1-HUM

List of Elements

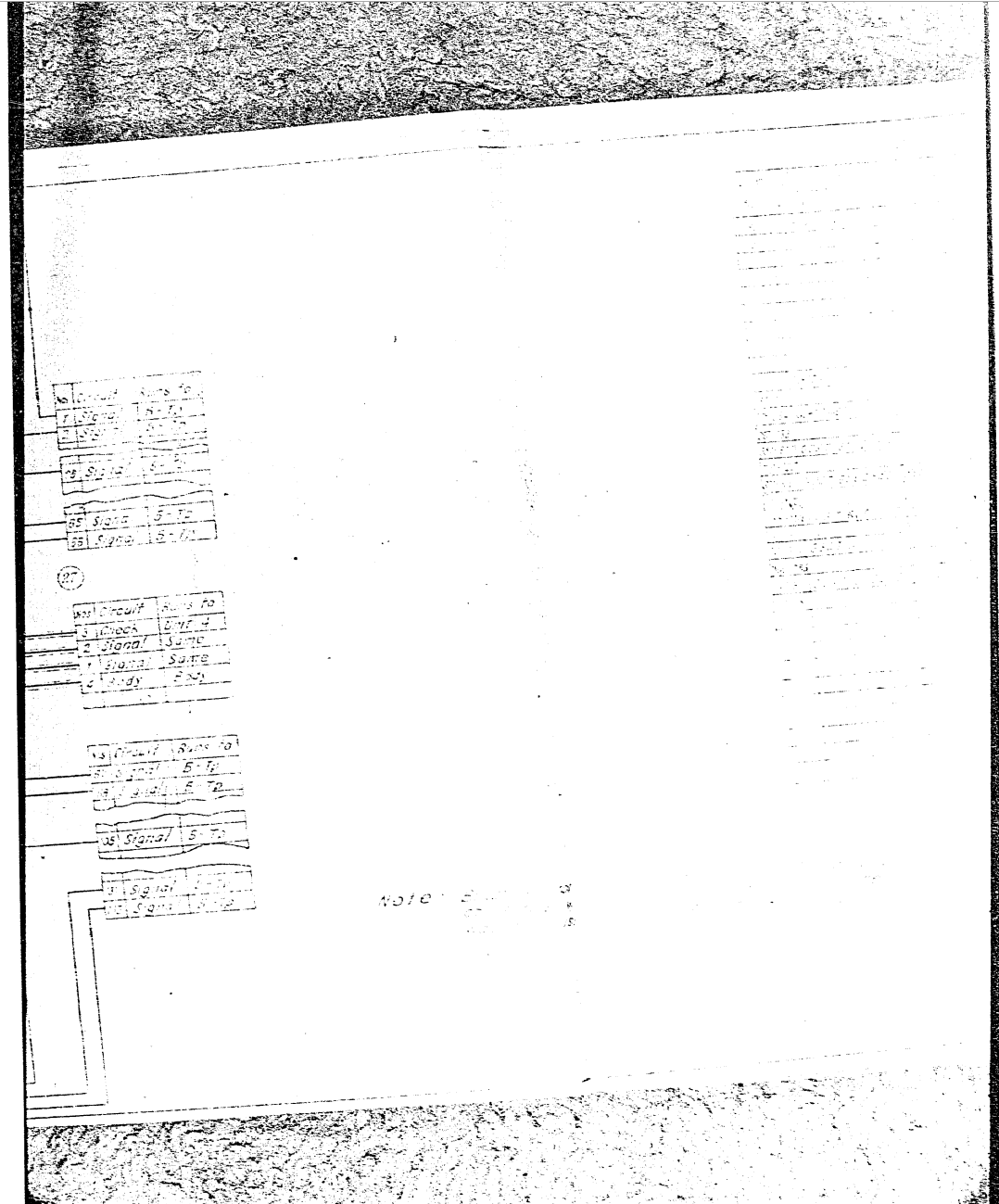
No.	Designation	Description	Value
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50-66	60ST 6502-53	Resistor MAT-05-030-1-1	2.2K
50-67	60ST 6502-53	Resistor MAT-05-030-1-1	2.2K
50-68	60ST 6502-53	Resistor MAT-05-030-1-1	2.2K
50-69	60ST 6502-53	Resistor MAT-05-030-1-1	2.2K
50-70	60ST 6502-53	Resistor MAT-05-030-1-1	2.2K
50-71	60ST 6502-53	Resistor MAT-05-030-1-1	2.2K
50-72	60ST 6502-53	Resistor MAT-05-030-1-1	2.2K
50-73	60ST 6502-53	Resistor MAT-05-030-1-1	2.2K
50-74	60ST 6502-53	Resistor MAT-05-030-1-1	2.2K
50-75	60ST 6502-53	Resistor MAT-05-030-1-1	2.2K
50-76	60ST 6502-53	Resistor MAT-05-030-1-1	2.2K
50-77	60ST 6502-53	Resistor MAT-05-030-1-1	2.2K
50-78	60ST 6502-53	Resistor MAT-05-030-1-1	2.2K
50-79	60ST 6502-53	Resistor MAT-05-030-1-1	2.2K
50-80	60ST 6502-53	Resistor MAT-05-030-1-1	2.2K
50-81	60ST 6502-53	Resistor MAT-05-030-1-1	2.2K
50-82	60ST 6502-53	Resistor MAT-05-030-1-1	2.2K
50-83	60ST 6502-53	Resistor MAT-05-030-1-1	2.2K
50-84	60ST 6502-53	Resistor MAT-05-030-1-1	2.2K
50-85	60ST 6502-53	Resistor MAT-05-030-1-1	2.2K
50-86	60ST 6502-53	Resistor MAT-05-030-1-1	2.2K
50-87	60ST 6502-53	Resistor MAT-05-030-1-1	2.2K
50-88	60ST 6502-53	Resistor MAT-05-030-1-1	2.2K
50-89	60ST 6502-53	Resistor MAT-05-030-1-1	2.2K
50-90	60ST 6502-53	Resistor MAT-05-030-1-1	2.2K
50-91	60ST 6502-53	Resistor MAT-05-030-1-1	2.2K
50-92	60ST 6502-53	Resistor MAT-05-030-1-1	2.2K
50-93	60ST 6502-53	Resistor MAT-05-030-1-1	2.2K
50-94	60ST 6502-53	Resistor MAT-05-030-1-1	2.2K
50-95	60ST 6502-53	Resistor MAT-05-030-1-1	2.2K
50-96	60ST 6502-53	Resistor MAT-05-030-1-1	2.2K
50-97	60ST 6502-53	Resistor MAT-05-030-1-1	2.2K
50-98	60ST 6502-53	Resistor MAT-05-030-1-1	2.2K
50-99	60ST 6502-53	Resistor MAT-05-030-1-1	2.2K
50-100	60ST 6502-53	Resistor MAT-05-030-1-1	2.2K

50-64 and 50-65 are to be
respective transformers in the same
; 2, 45, 60, 67, 19, 10, 100

FM DIVISION SURVIVANT
Schematic
Diagram

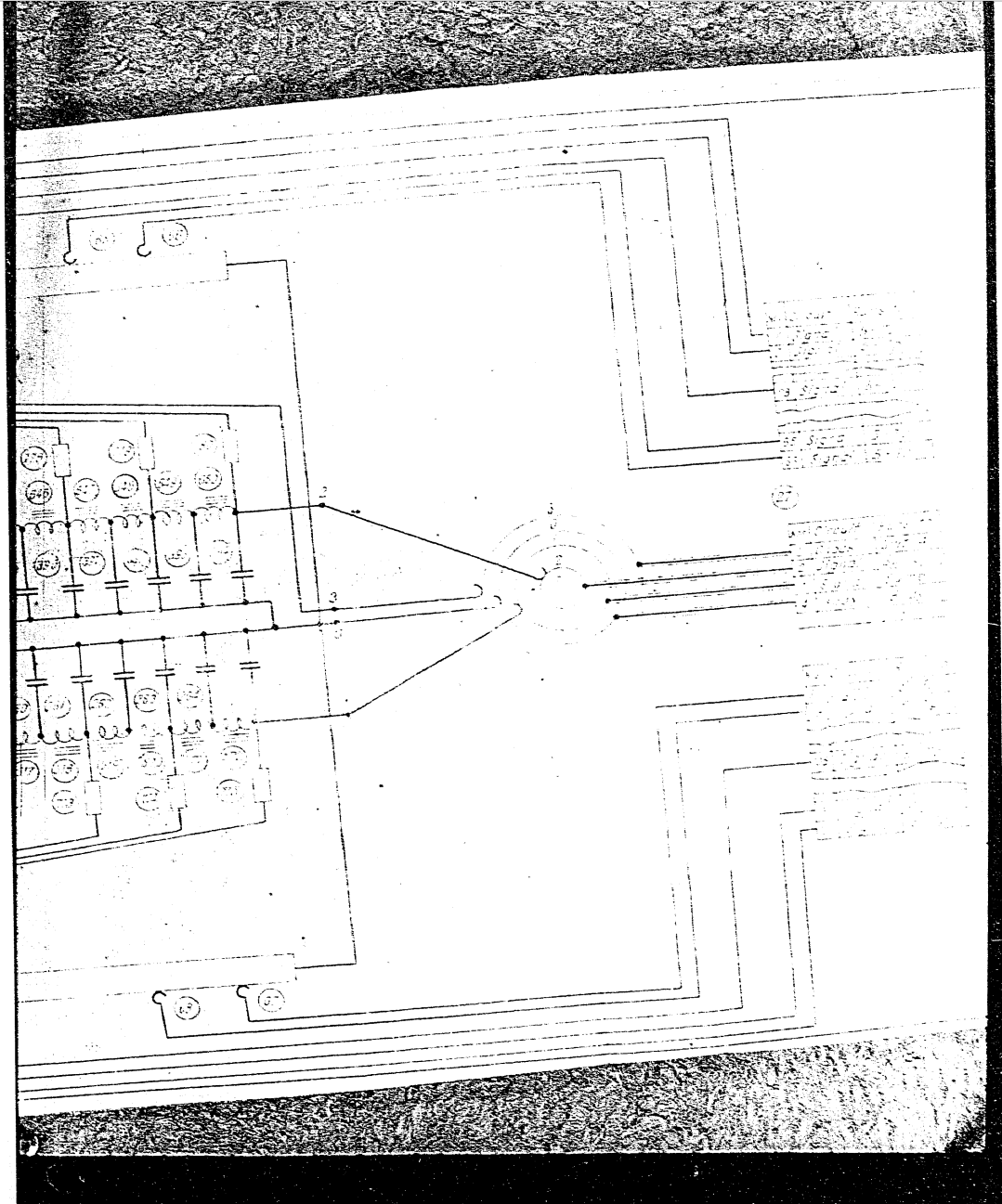
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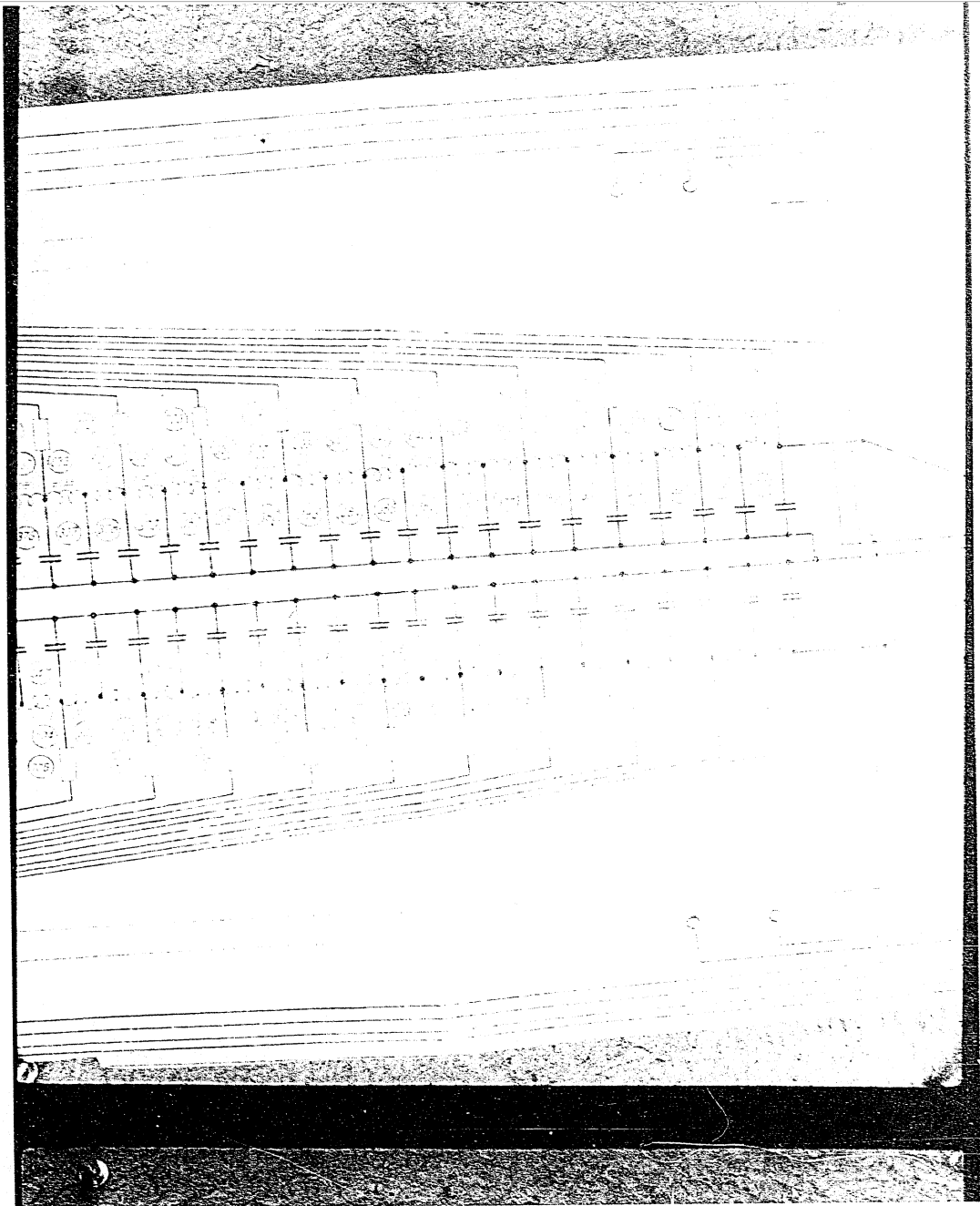
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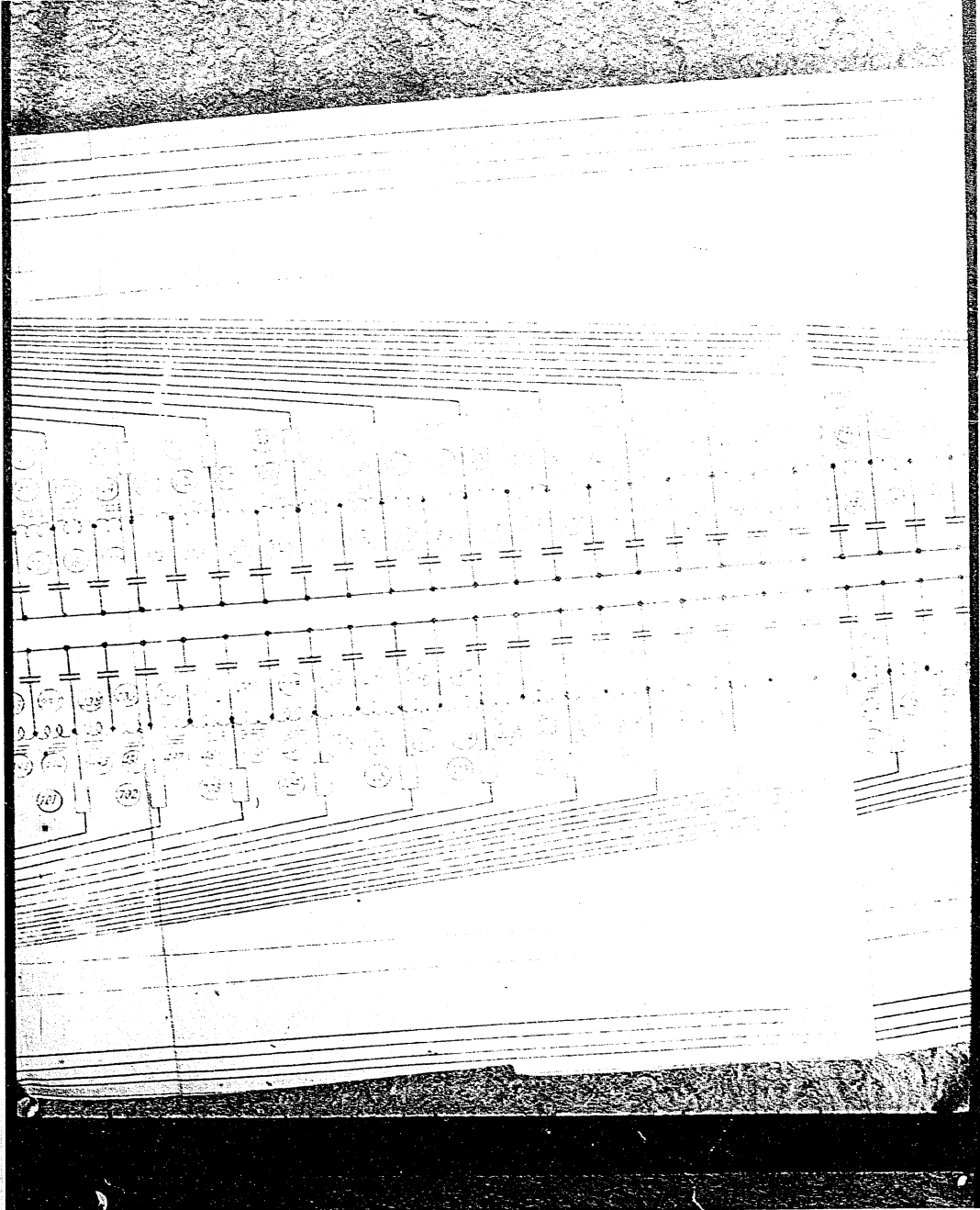
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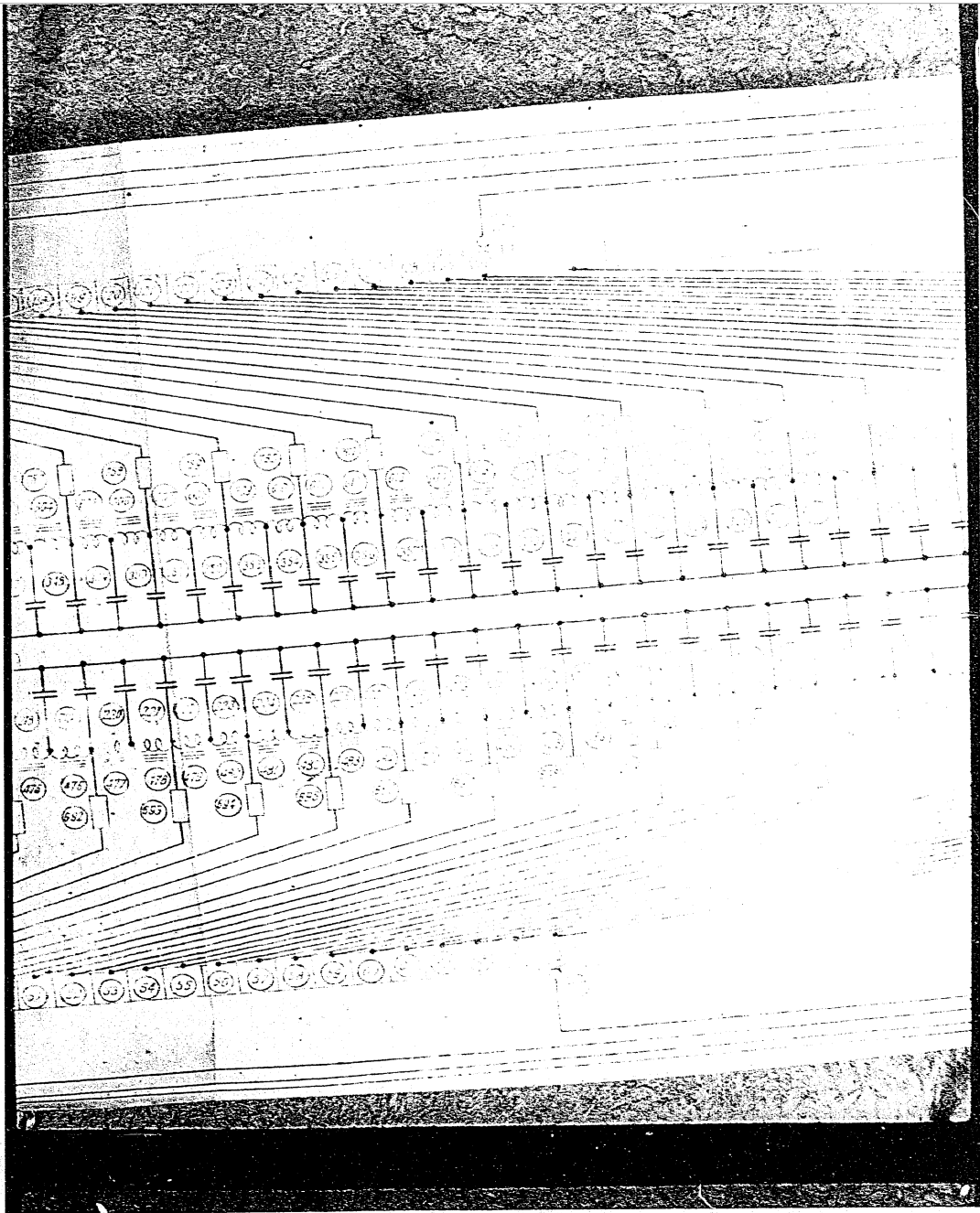
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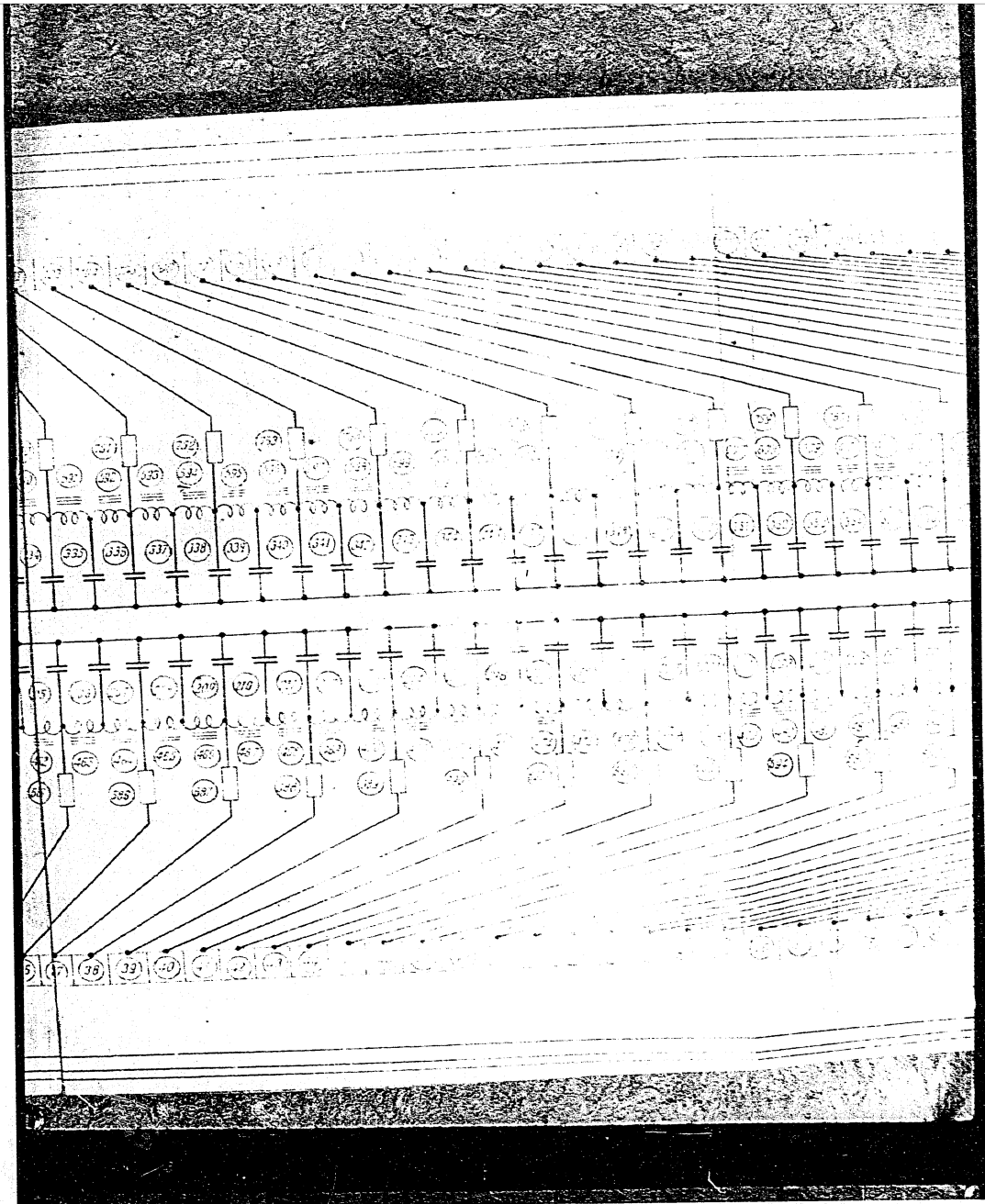
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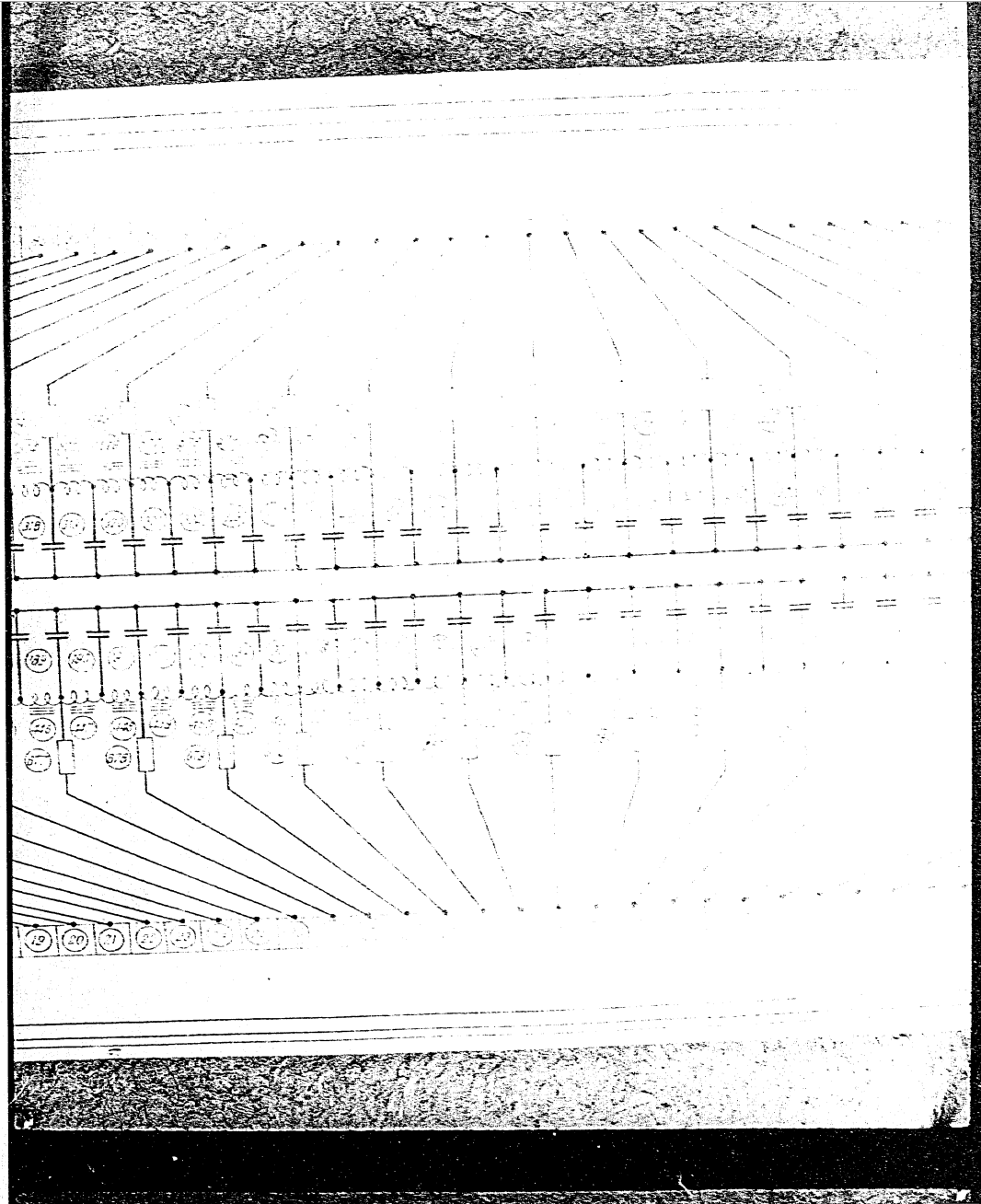
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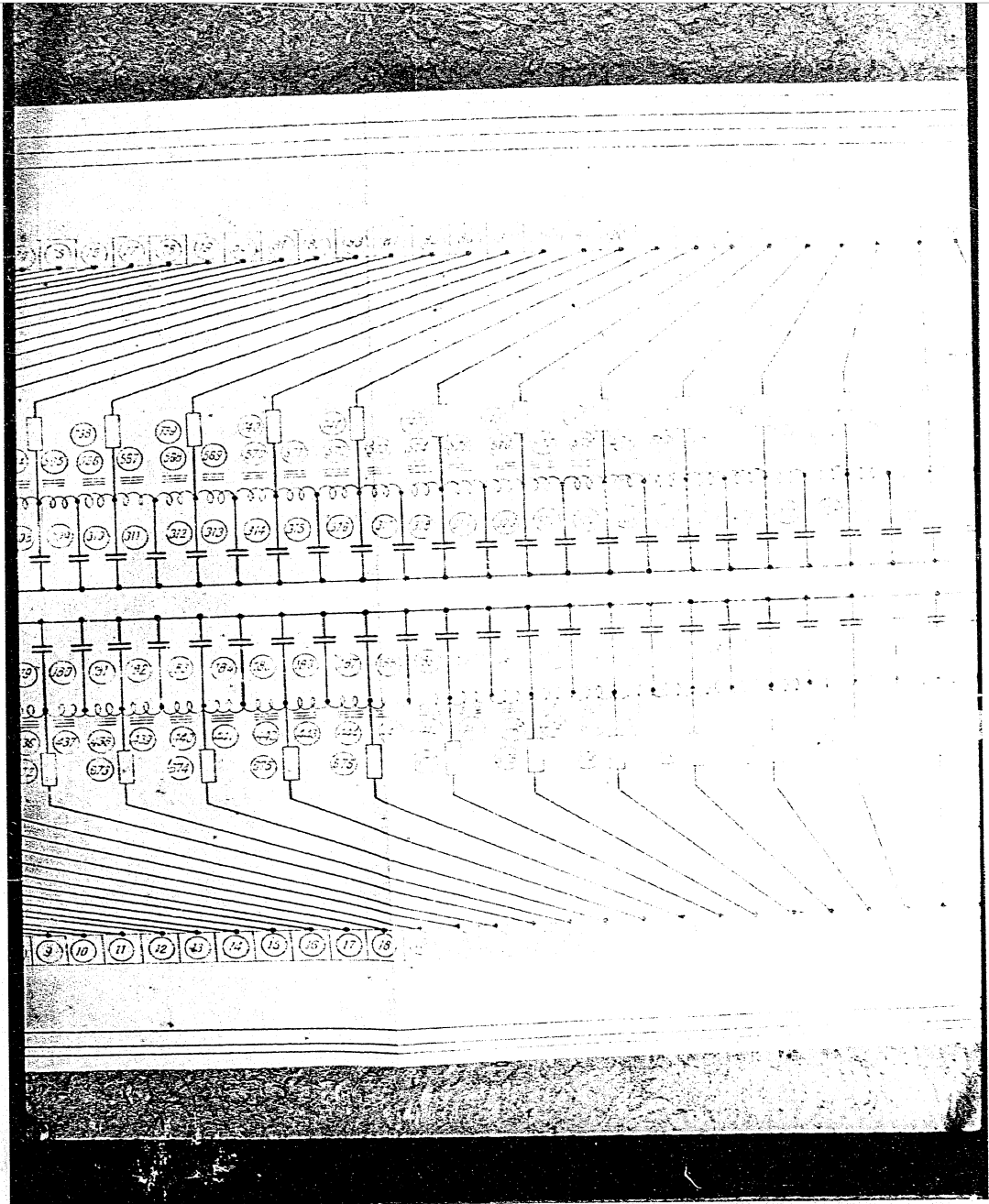
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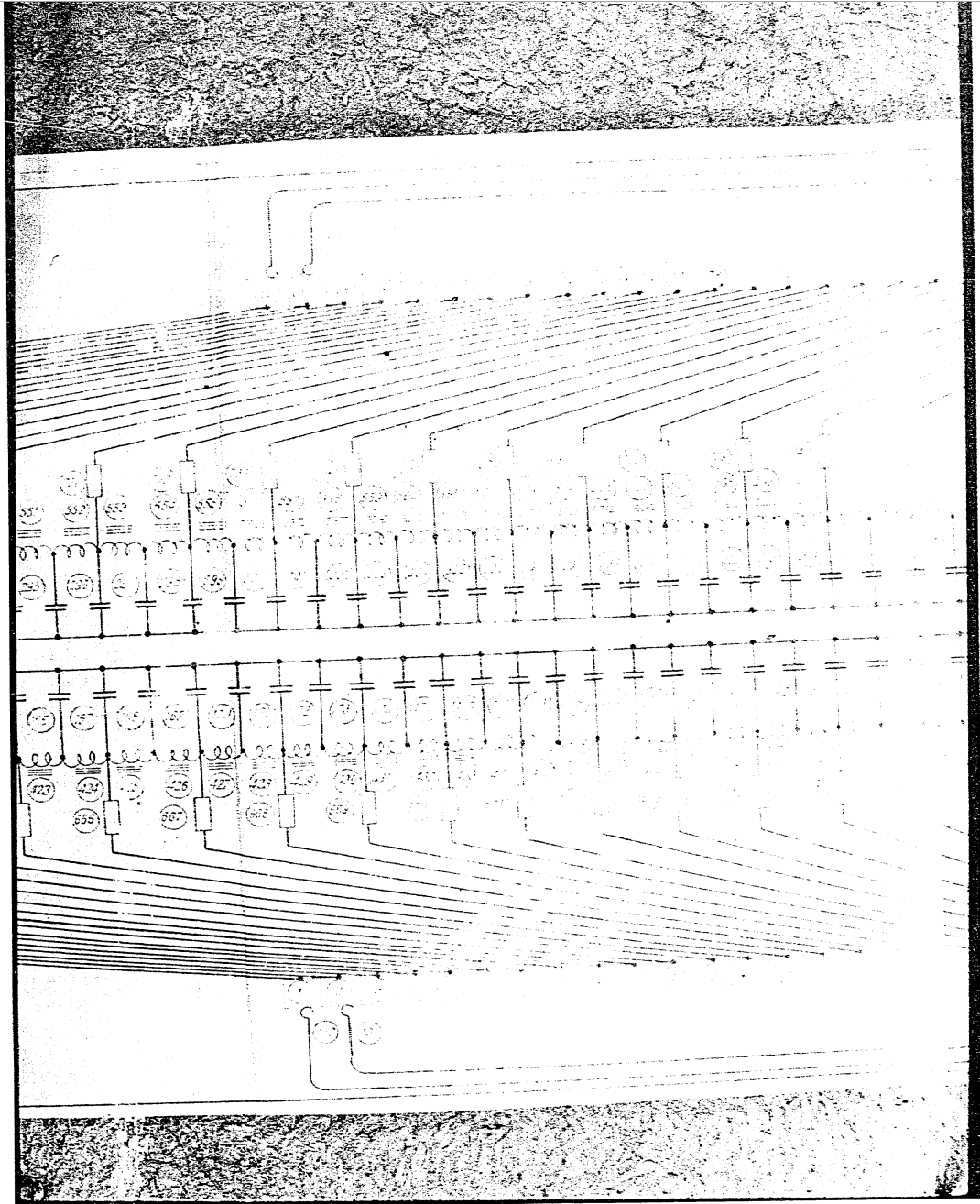
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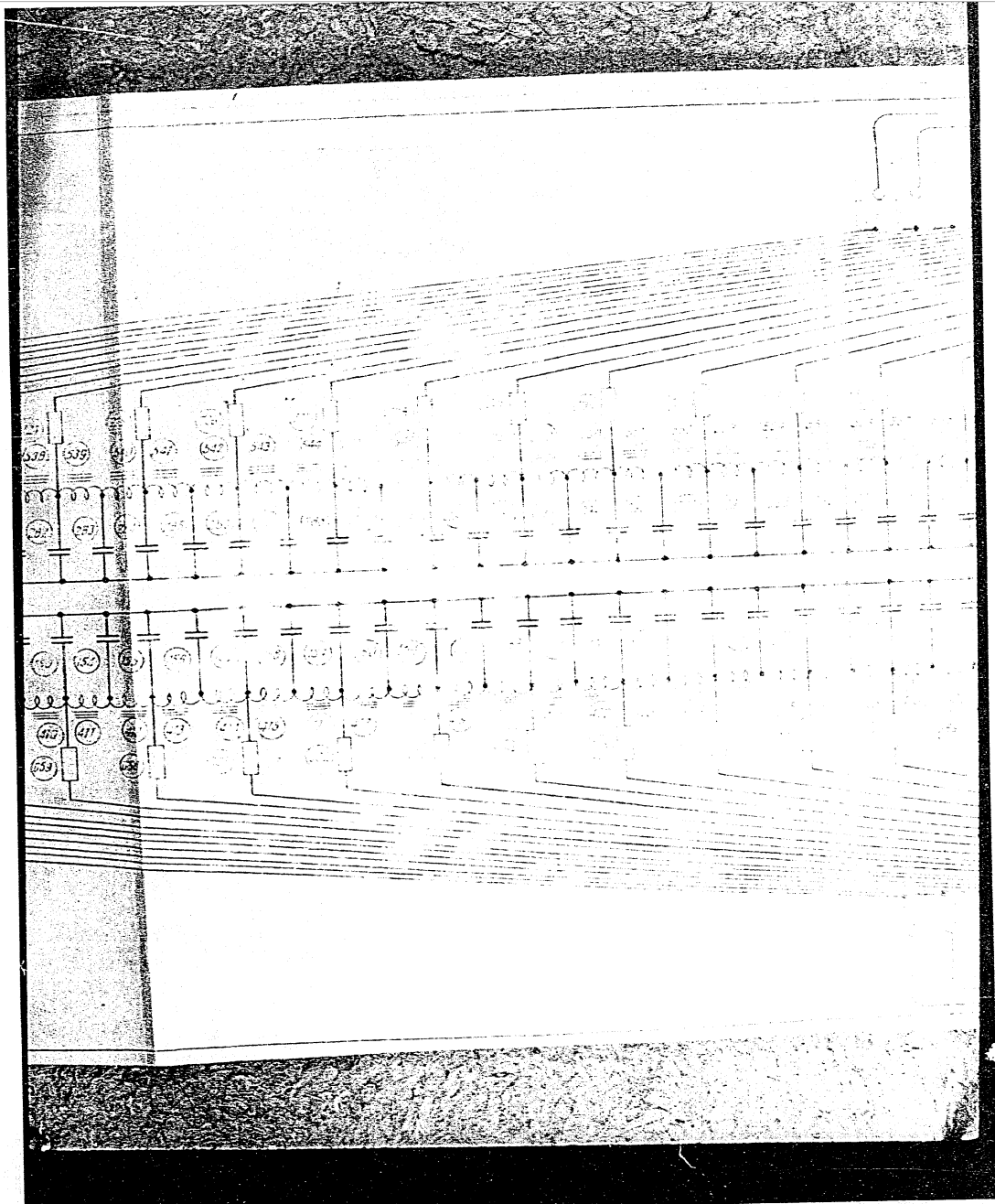
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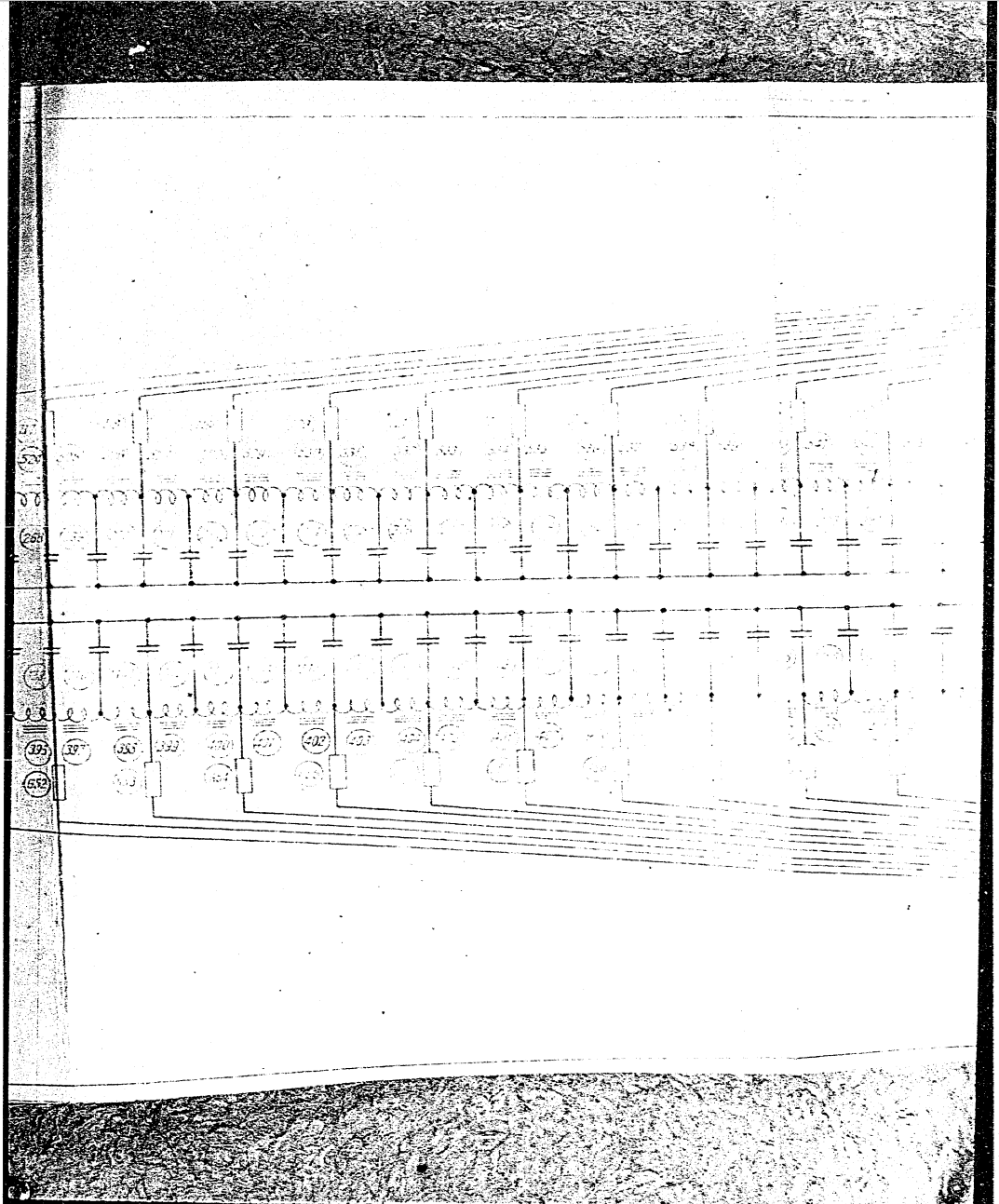
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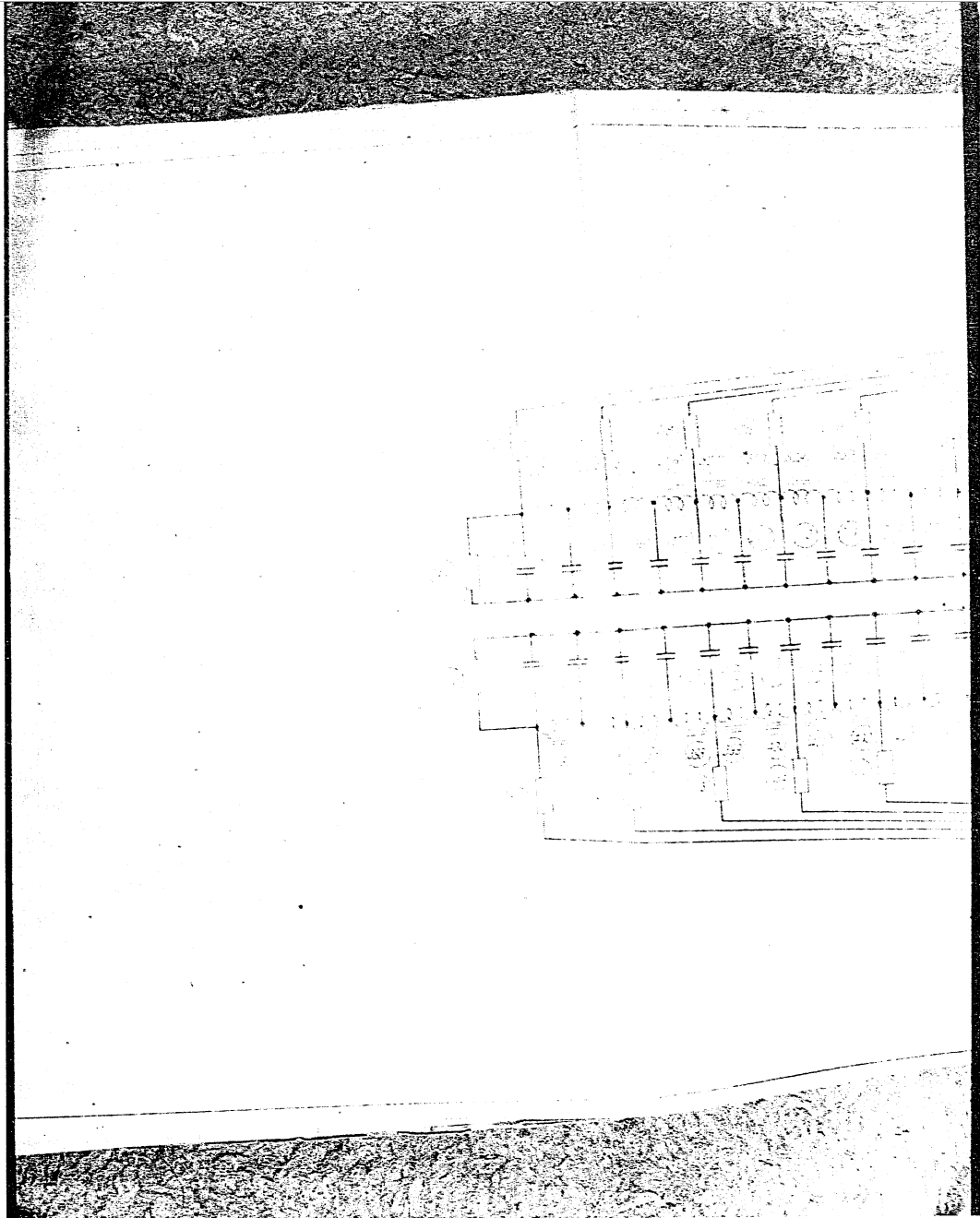
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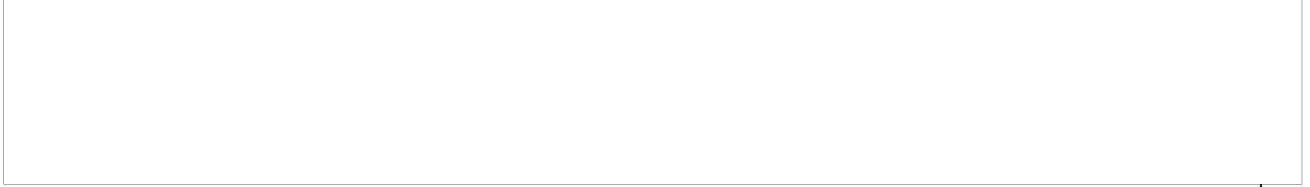


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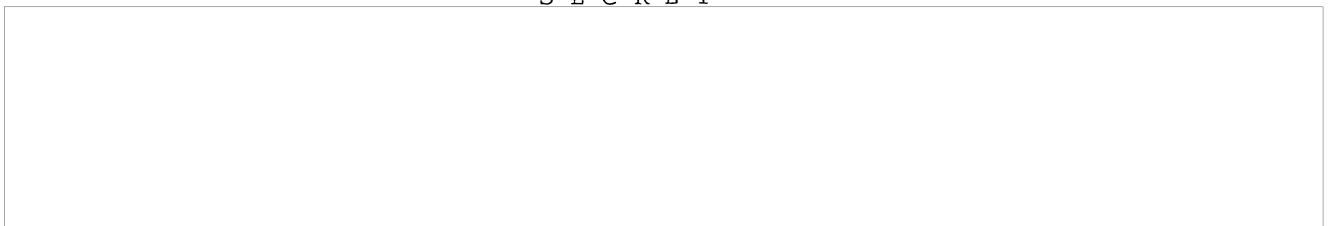


C O N T R O L S U B U N I T

SCHEMATIC DIAGRAM

LZh 2.076.000 SxE

S E C R E T



50X1-HUM

CONTROL SUBUNIT

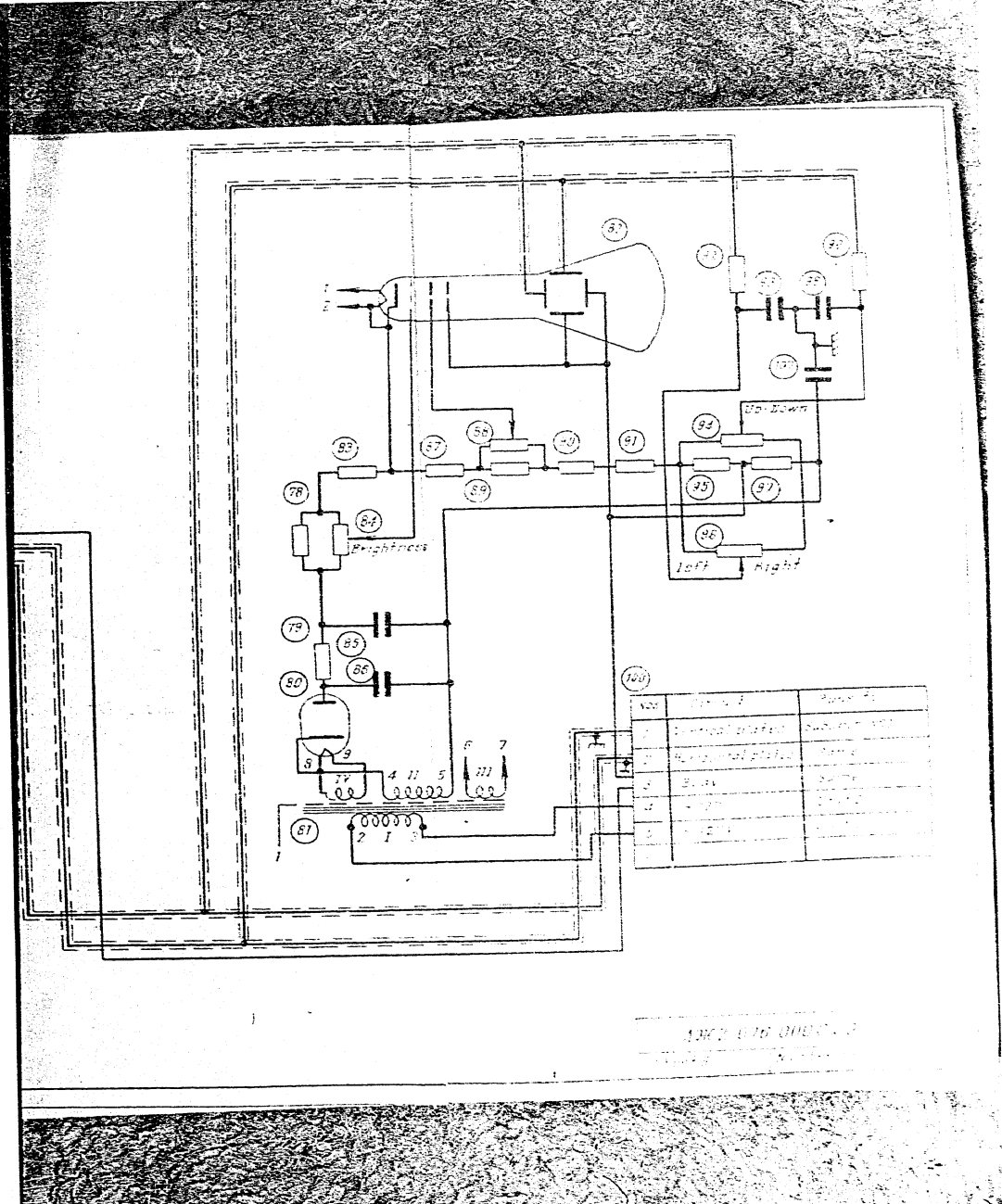
SCHEMATIC

DIAGRAM

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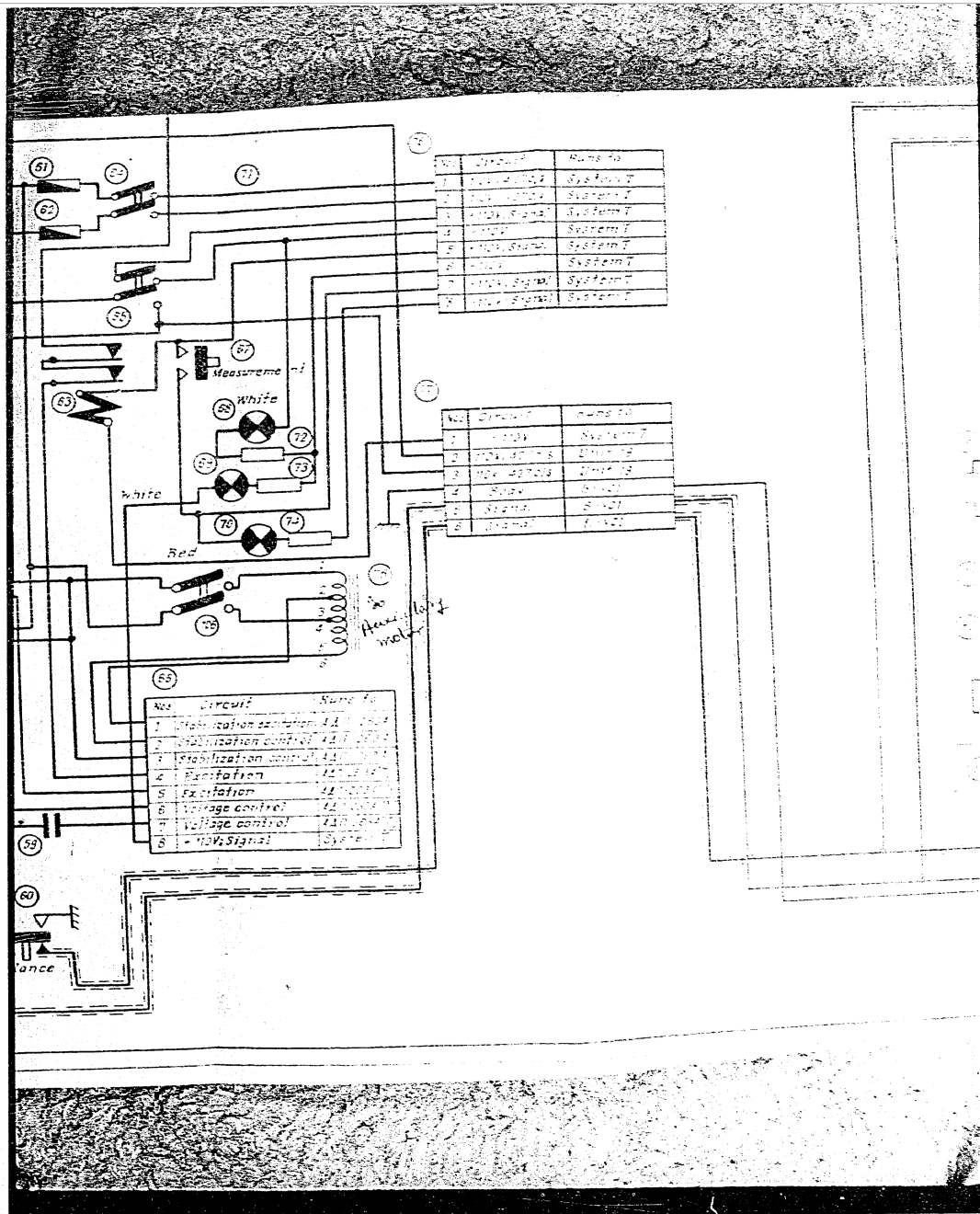
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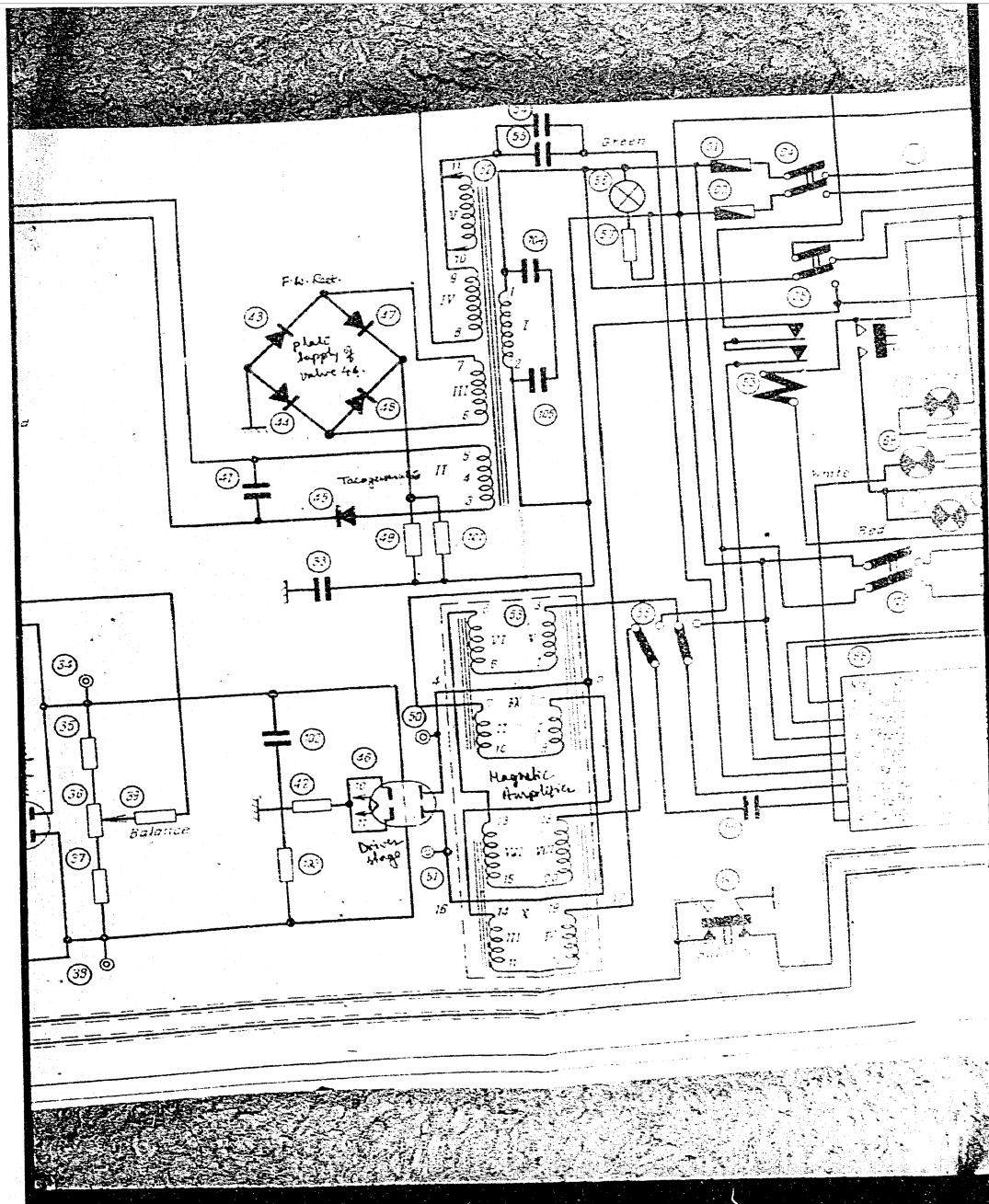


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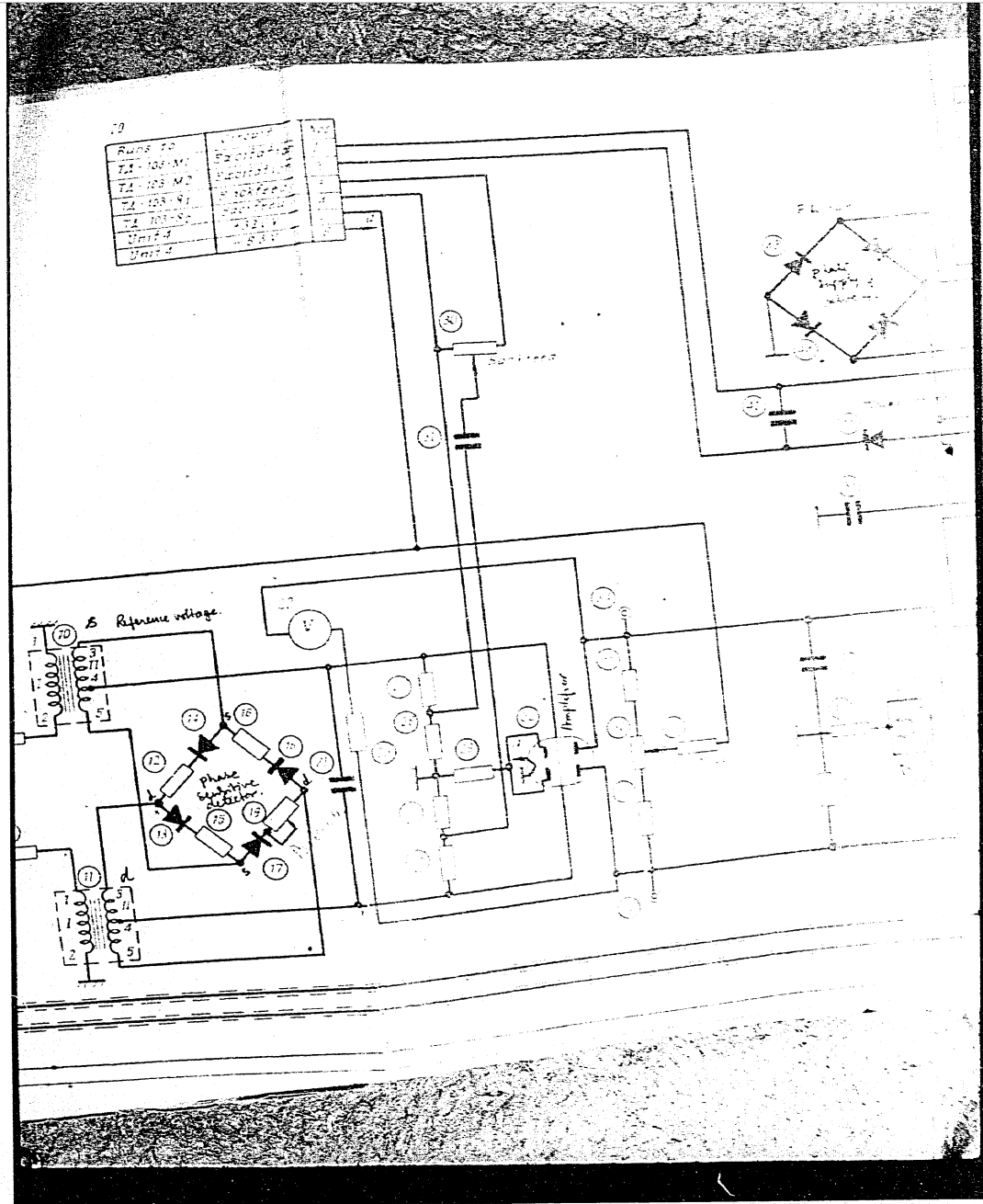
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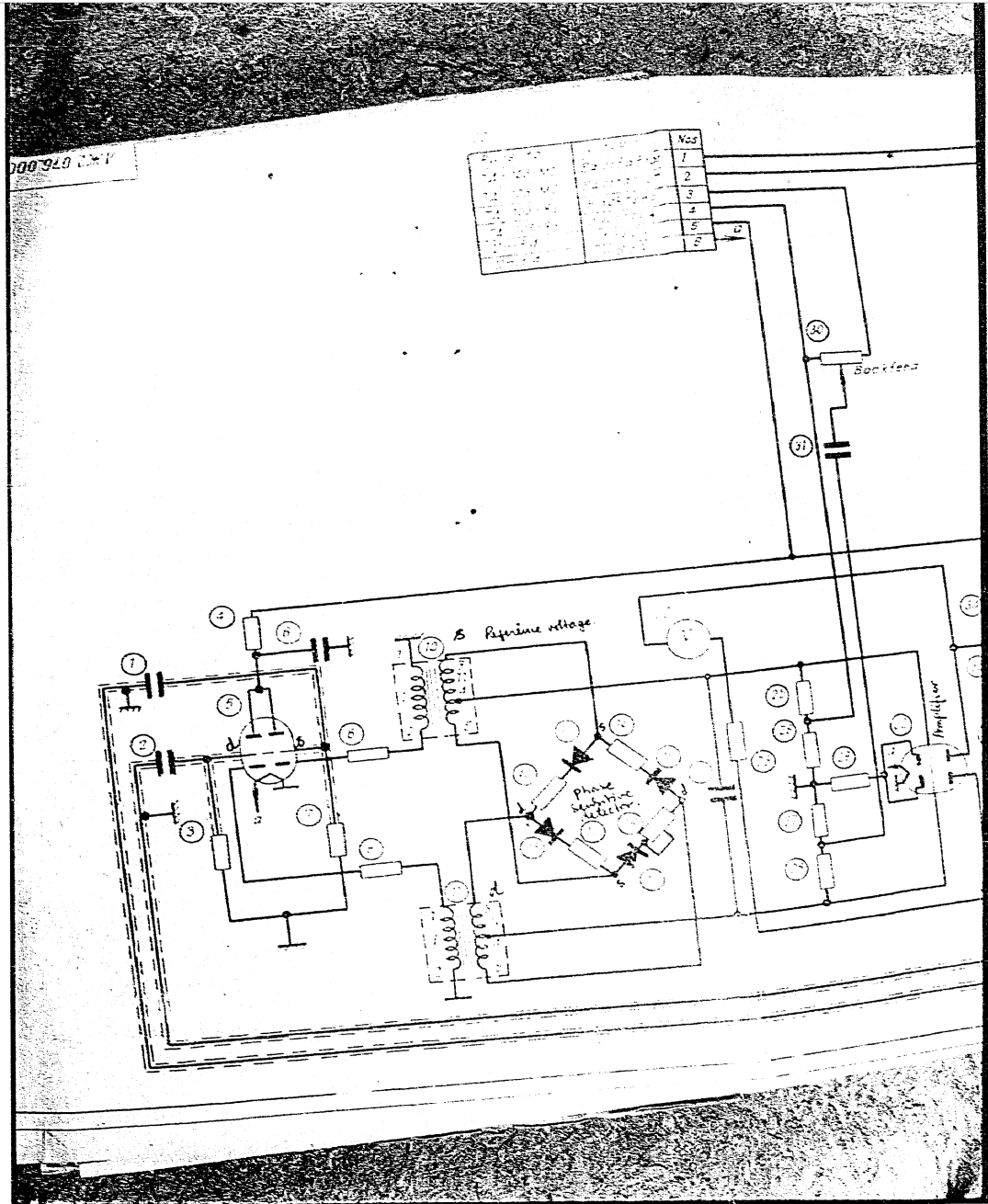


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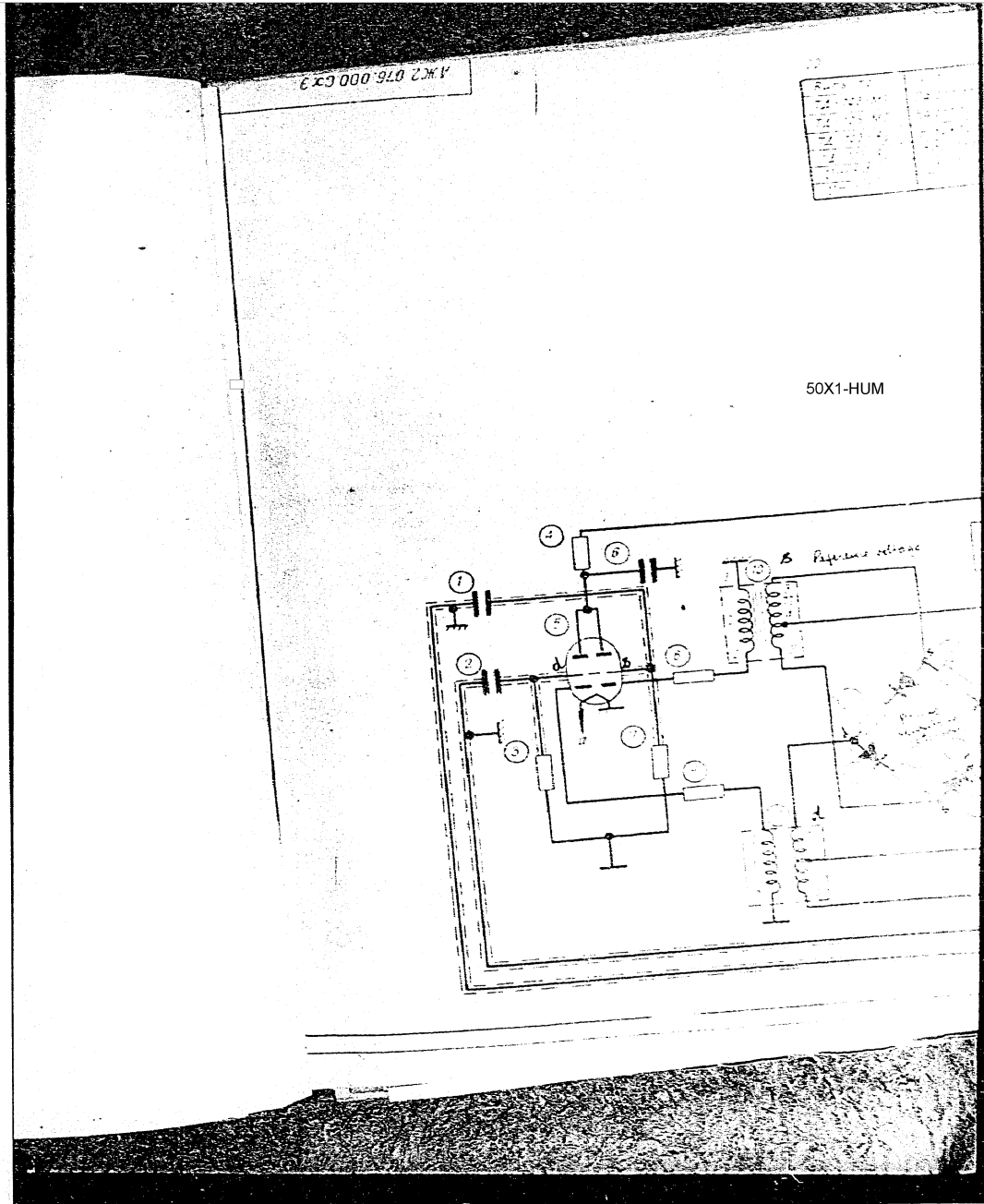
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50X1-HUM

50X1-HUM



50X1-HUM

50X1-HUM

Ref. No.	OSST, Spec., Standard, Drawing	Description	Partings	Qty	Note
LIST BY ELEMENTS					
1-2	OKO.482.021TV	Capacitor	0.02 MF; 400 V	2	
		WMT-50-0.02-II			
3	OKO.487.005TV	Resistor	560 kilohms;	1	
		WMT-0.5-0.50-II	0.5 W		
4	OKO.487.003TV	Resistor	0.1 kilohms;	1	
		WMT-1-0.10-II	2 W		
5	4TV01-105-F3	Valve 6XND		1	
6	OKO.482.021TV	Capacitor	1 MF; 400 V	1	
		WMT-1-0.02-11500-II			
7	OKO.487.003TV	Resistor	560 kilohms;	1	
		WMT-0.5-1.00-II	0.5 W		
8-9	OKO.487.003TV	Resistor	430 ohms; 0.5 W	2	
		WMT-0.5-50-II			
10	OKA.709.000	Transformer	OKX; 1-1000 turns 11-20000 turns Wire HSC dia. 0.08	1	
11	OKA.709.000	Transformer	OKX; 1-1000 turns 11-20000 turns Wire HSC dia. 0.08	1	
12	OKO.487.004TV	Resistor	5 kilohms; 0.5 W	1	
		WMT-1.0-0.50-II			
13-14	5TV06.600-F6	Diode, Germa-		2	
		nium 200			
15-16	OKO.487.003TV	Resistor	5 kilohms; 0.5 W	1	
		WMT-1.0-0.50-II			
17-18	5TV06.600-F6	Diode, Germa-		2	
		nium 200			

50X1-HUM

50X1-HUM

Ref. No.	SBST, Spec., Standard, Drawing	Description	Rating	Qty	Note
19	YKO.468.00-BTV	Resistor CNO-2-11-48 kil- ohms±10%	50 kilohms; 2 W	1	
20	ME.737.137	Terminal plate		1	
21	OEO.462.021TV	Capacitor MBT-2-200-0.1-II	1.1 µF; 200 V	1	
22	ONN.553.027-53	Microammeter M494	50-0-50 µA	1	
23	OEO.467.003TV	Resistor MNT-0.5-0.1-II	1 megohm; 0.5 W	1	
25	OEO.467.003TV	Resistor MNT-0.5-0.1-II	100 kilohms; 0.5 W	1	
26-27	OEO.467.003TV	Resistor MNT-0.5-0.2-II	240 kilohms; 0.5 W	2	
28	OEO.467.003TV	Resistor MNT-0.5-0.1-II	100 kilohms; 0.5 W	1	
29	OEO.467.003TV	Resistor MNT-1-620-II	520 ohms; 1 W	1	
30	YKO.468.004BTV	Resistor CNO-2-11-48 kil- ohms±10%	22 kilohms; 2 W	1	
31	OEO.462.022TV	Capacitor MBT-2-200-A-10-II	10 µF; 200 V	1	
32	WTV01-106-53	Valve 6HE7		1	
33	OEO.462.022TV	Capacitor MBT-2-600-A-1-II	4 µF; 600 V	1	
34	HO.364.007	Jack KM18-1		1	
35	OEO.467.003TV	Resistor MNT-2-0.47-II	470 kilohms; 2 W	1	
36	YKO.468.00-BTV	Resistor CNO-2-11-48 kil- ohms±10%	470 kilohms; 2 W	1	
37	OEO.467.003TV	Resistor MNT-2-0.47-II	470 kilohms; 2 W	1	
38	HO.364.007	Jack KM18-1		1	
39	OEO.467.003TV	Resistor MNT-1-82,010-II	82 kilohms; 1 W	1	
41	OEO.462.022TV	Capacitor MBT-2-200-A-10-II	10 µF; 200 V	1	
42	OEO.467.003TV	Resistor MNT-1-11 kilohm-II	11 kilohms; 1 W	1	
43-45	TTB.362.011BTV	Block, anti- con 1-211		3	

50X1-HUM

50X1-HUM

Ref. No.	GOST, Spec., Standard, Drawing	Description	Ratings	Qty	Note
46	УТВ01-105-53	Valve 6H1B		1	
47-48	ТТЗ.362.0118ТВ	Diode, sili-con I-211		2	
49	ОЭ0.467.003ТВ	Resistor МНТ-2-22 kilohms-III	22 kilohms; 2 W	1	
50-51	НО.364.007	Jack КМ16-1		2	
52	ЛХ4.714.000	Transformer	М20x32 I-198 turns Wire ПЗВ-2 dia. 0.8 II-2x72 turns Wire ПЗВ-2 dia. 0.25 III-720 turns Wire ПЗВ-2 dia. 0.2 IV-69 turns Wire ПЗВ-2 dia. 1.08 V-12 turns Wire ПЗВ-2 dia. 1.08	1	
53	ЛХ4.759.000	Amplification choke	М20x30 I;II;III;IV 80 turns Wire ПЗВ-2 dia. 0.8 V;VI;VII;VIII; 175 turns Wire ПЗВ-2 dia. 0.53 IX;X 25,000 turns Wire ПЗВ-2 dia. 0.08	1	
54	ОЭ0.462.049ТВ	Capacitor МБП4-1-2A-250-1±10%	1 μF; 250 V	1	
55	ОЭ0.462.049ТВ	Capacitor МБП4-1-2A-250-4±10%	4 μF; 250 V	1	

50X1-HUM

50X1-HUM

Ref. No.	GOST, Spec., Standard, Drawing	Description	Rating	Qty	Note
56	TV-1-3-108a	Pilot lamp MH-16	13.5 V; 0.16 A	1	
57	020.467.011TV	Resistor H08-10-1100ohms-II	1100 ohms; 20 W	1	
58	BHM700672-50	Toggle switch TH1-3		1	
59	020.462.0-1TV	Capacitor MSTY-1-2A-250-3-100	2.5; 250 V	1	
60	HA3.604.0190n	Push-button		1	
61-62	30ST 5010-53	Fuse HK-5-2	3A	1	
63	PO4.523.6270n	Relay PKM2		1	
64-65	BHM700672-52	Toggle switch TH1-3		1	
66	HE.737.159	Terminal plate		1	
67	HA3.604.0190n	Push-button		1	
68-70	TV-1-3-108a	Pilot lamp MH-16	13.5 V; 0.16 A	1	
71	17.531.001	Clamp		1	
72-74	020.467.011TV	Resistor H38-20-1100 ohms-II	1100 ohms; 20 W	1	
75	HE4.733.0000n	Autotransformer	120x20 1-2-220 turns 1-3-300 turns 1-4-440 turns Wire H08-2 dia. 0.05 1-5-160 turns 1-6-260 turns Wire H08-2 dia. 0.05	1	
76	HE.737.159	Terminal plate		1	
77	HE.737.159	Terminal plate		1	
78	020.467.003TV	Resistor MHT-0.5-75,000-II	75 kilohms; 0.5 W	1	
79	020.467.003TV	Resistor MHT-0.5-75,000-II	75 kilohms; 0.5 W	1	
80	4TF01-508-52	Valve 4140		1	
81	HE4.706.003	Transformer	100000 1-2-1 turns Core dia. 0.05 11-20 turns Core dia. 0.05	1	

50X1-HUM

50X1-HUM

Ref. No.	GOST, Spec., Standard, Drawing	Description	Rating	Qty	Note
			III-57 turns H38-2 dia. 0.70		
			IV-15 turns H38-2 dia. 1.00		
82	HTVOT-402-51	Cathode-ray tube HTV-50		1	
83	OEO.467.003TV	Resistor MNT-0.5-11,000-II	11 kilohms: 0.5 W	1	
84	YKO.468.003TV	Resistor CHO-2-1-1 meg-ohm-10%60H	1 megohm: 2 W	1	
85	OEO.462.021TV	Capacitor KSP-12-2-0.1-II	0.1 μ F: 2 KV	1	
86	OEO.462.021TV	Capacitor KSP-12-2-0.1-II	0.1 μ F: 2 KV	1	
87	OEO.467.003TV	Resistor MNT-0.5-0.34-II	340 kilohms: 0.5 W	1	
88	YKO.468.004TV	Resistor CHO-2-1-1 meg-ohm-10%60H	1 megohm: 2 W	1	
89	OEO.467.003TV	Resistor MNT-0.5-0.47-II	470 kilohms: 0.5 W	1	
90	OEO.467.003TV	Resistor MNT-0.5-0.43-II	430 kilohms: 0.5 W	1	
91	OEO.467.003TV	Resistor MNT-0.5-0.47-II	470 kilohms: 0.5 W	1	
92	OEO.467.003TV	Resistor MNT-0.5-1-II	1 megohm: 0.5 W	1	
93	OEO.462.021TV	Capacitor KSP-12-2-0.1-400-II	0.1 μ F: 400 V	1	
94	YKO.468.004BTV	Resistor CHO-2-1 meg-ohm-10%60H	1 megohm: 2 W	1	
95	OEO.467.003TV	Resistor MNT-0.5-51,000-II	51 kilohms: 0.5 W	1	
96	YKO.468.004BTV	Resistor CHO-2-1-1 meg-ohm-10%60H	1 megohm: 2 W	1	
97	OEO.467.003TV	Resistor MNT-0.5-51,000-II	51 kilohms: 0.5 W	1	

50X1-HUM

50X1-HUM

Ref. No.	GOST, Spec., Standard, Drawing	Description	Ratings	Qty	Note
98	QEO.462.021TV	Capacitor MPT-M2-0.1-400-11	0.1 μ F; 400 V	1	
99	QEO.467.003TV	Resistor MNT-0.5-1-11	1 megohm; 0.5 W	1	
100	K6.757.198	Terminal plate		1	
101	QEO.467.003TV	Resistor MNT-1-02 kilohms-11A	22 kilohms; 2 W	1	
102	QEO.462.022TV	Capacitor MPTM-1-0.5-200-11	0.5 μ F; 200 V	1	
103	QEO.467.003TV	Resistor MNT-0.5-11,000-11	22 kilohms; 0.5 W	1	
104	QEO.462.022TV	Capacitor MPTM-2-0.25-400-11	0.25 μ F; 400 V	1	
105	QEO.462.022TV	Capacitor MPTM-1-0.25-400-11	0.25 μ F; 400 V	1	
106	HMO.380.606	Toggle switch ST1-1		1	
107	QEO.462.023TV	Capacitor MPTC-1-400-4-11	4 μ F; 400 V	1	

50X1-HUM

50X1-HUM



U N I T 4

CONTROL PANEL

SCHEMATIC DIAGRAM

LZh 2.702.000 SxE

S E C R E T



50X1-HUM

ments

Type	Ratings	Qty	Note
	13.5 V; 0.16 A	5	
	151.75 V 500 c/s	1	
103		1	
	110 V, 50 c/s, 0.28 A	1	Accuracy class 1
	110 V, 50 c/s, 0.4 A	1	Same
	110 V, 50 c/s, 0.28 A	1	Same
	110 V, 50 c/s, 0.4 A	1	Same
	110 V, 6 A	1	
250-2 ± 10%	2 μF, 250 V	1	
res - II	10 ohms; 7.5 V	1	
- 211		1	
250-2 ± 10%	2 μF, 250 V	1	
res - II	10 ohms; 7.5 V	1	
	1 A	1	
	36/127 V 500 c/s	1	
	110 V, 50 c/s, 0.28 A	1	Accuracy class 1
	110 V, 50 c/s, 0.4 A	1	Same
		5	
		1	
		1	
	WIRE 30		
	1-2-1150		
	Turns		
	1128-2		
	dia. 0.33		
	2-3-150		
	Turns		
	1138-2		
	dia 116	1	

UNIT 4

APCZ 101-101 101

Schematic Diagram

50X1-HUM

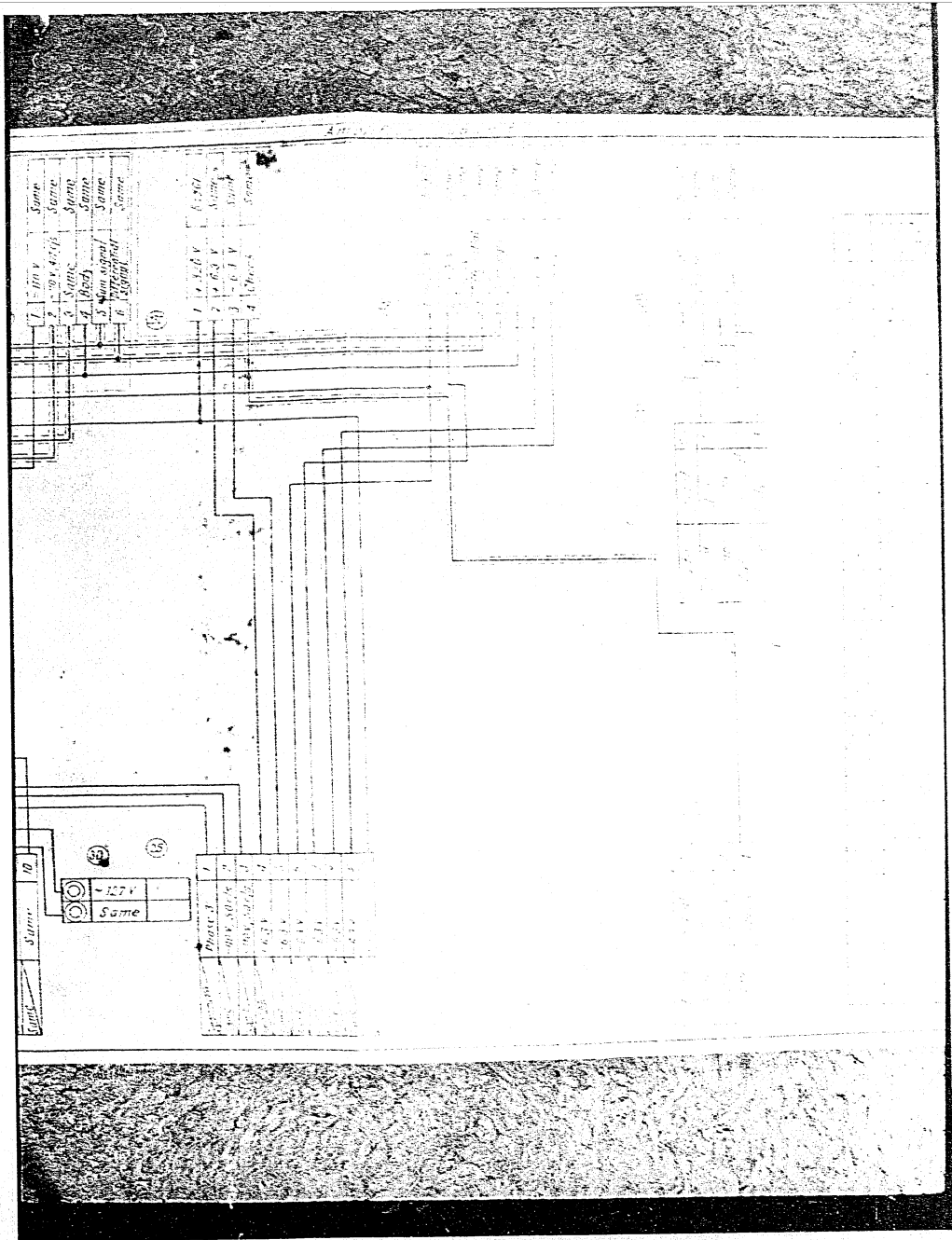
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List of elements

Ref. No.	GOST, Spec., Standard Drawing	Description, Type	Findings	Am.	Ver.
1	791-3-100A	Valve MV-10	20.002.007.13	5	
2	45.162.165.13	Motor 420-265A	20.002.007.13	5	
3	40.067.008.13	Transformer 11-100	20.002.007.13	5	
4	30.002.007.13	Solenoid 10-40	20.002.007.13	5	
5	40.067.008.13	Solenoid 10-40	20.002.007.13	5	
6	40.067.008.13	Solenoid 10-40	20.002.007.13	5	
7	40.067.008.13	Solenoid 10-40	20.002.007.13	5	
8	40.067.008.13	Solenoid 10-40	20.002.007.13	5	
9	40.067.008.13	Solenoid 10-40	20.002.007.13	5	
10	40.067.008.13	Solenoid 10-40	20.002.007.13	5	
11	40.067.008.13	Solenoid 10-40	20.002.007.13	5	
12	40.067.008.13	Solenoid 10-40	20.002.007.13	5	
13	40.067.008.13	Solenoid 10-40	20.002.007.13	5	
14	40.067.008.13	Solenoid 10-40	20.002.007.13	5	
15	40.067.008.13	Solenoid 10-40	20.002.007.13	5	
16	40.067.008.13	Solenoid 10-40	20.002.007.13	5	
17	40.067.008.13	Solenoid 10-40	20.002.007.13	5	
18	40.067.008.13	Solenoid 10-40	20.002.007.13	5	
19	40.067.008.13	Solenoid 10-40	20.002.007.13	5	
20	40.067.008.13	Solenoid 10-40	20.002.007.13	5	
21	40.067.008.13	Solenoid 10-40	20.002.007.13	5	
22	40.067.008.13	Solenoid 10-40	20.002.007.13	5	
23	40.067.008.13	Solenoid 10-40	20.002.007.13	5	
24	40.067.008.13	Solenoid 10-40	20.002.007.13	5	
25	40.067.008.13	Solenoid 10-40	20.002.007.13	5	
26	40.067.008.13	Solenoid 10-40	20.002.007.13	5	
27	40.067.008.13	Solenoid 10-40	20.002.007.13	5	
28	40.067.008.13	Solenoid 10-40	20.002.007.13	5	
29	40.067.008.13	Solenoid 10-40	20.002.007.13	5	
30	40.067.008.13	Solenoid 10-40	20.002.007.13	5	
31	40.067.008.13	Solenoid 10-40	20.002.007.13	5	
32	40.067.008.13	Solenoid 10-40	20.002.007.13	5	
33	40.067.008.13	Solenoid 10-40	20.002.007.13	5	
34	40.067.008.13	Solenoid 10-40	20.002.007.13	5	
35	40.067.008.13	Solenoid 10-40	20.002.007.13	5	
36	40.067.008.13	Solenoid 10-40	20.002.007.13	5	
37	40.067.008.13	Solenoid 10-40	20.002.007.13	5	
38	40.067.008.13	Solenoid 10-40	20.002.007.13	5	
39	40.067.008.13	Solenoid 10-40	20.002.007.13	5	
40	40.067.008.13	Solenoid 10-40	20.002.007.13	5	
41	40.067.008.13	Solenoid 10-40	20.002.007.13	5	
42	40.067.008.13	Solenoid 10-40	20.002.007.13	5	
43	40.067.008.13	Solenoid 10-40	20.002.007.13	5	
44	40.067.008.13	Solenoid 10-40	20.002.007.13	5	
45	40.067.008.13	Solenoid 10-40	20.002.007.13	5	
46	40.067.008.13	Solenoid 10-40	20.002.007.13	5	
47	40.067.008.13	Solenoid 10-40	20.002.007.13	5	
48	40.067.008.13	Solenoid 10-40	20.002.007.13	5	
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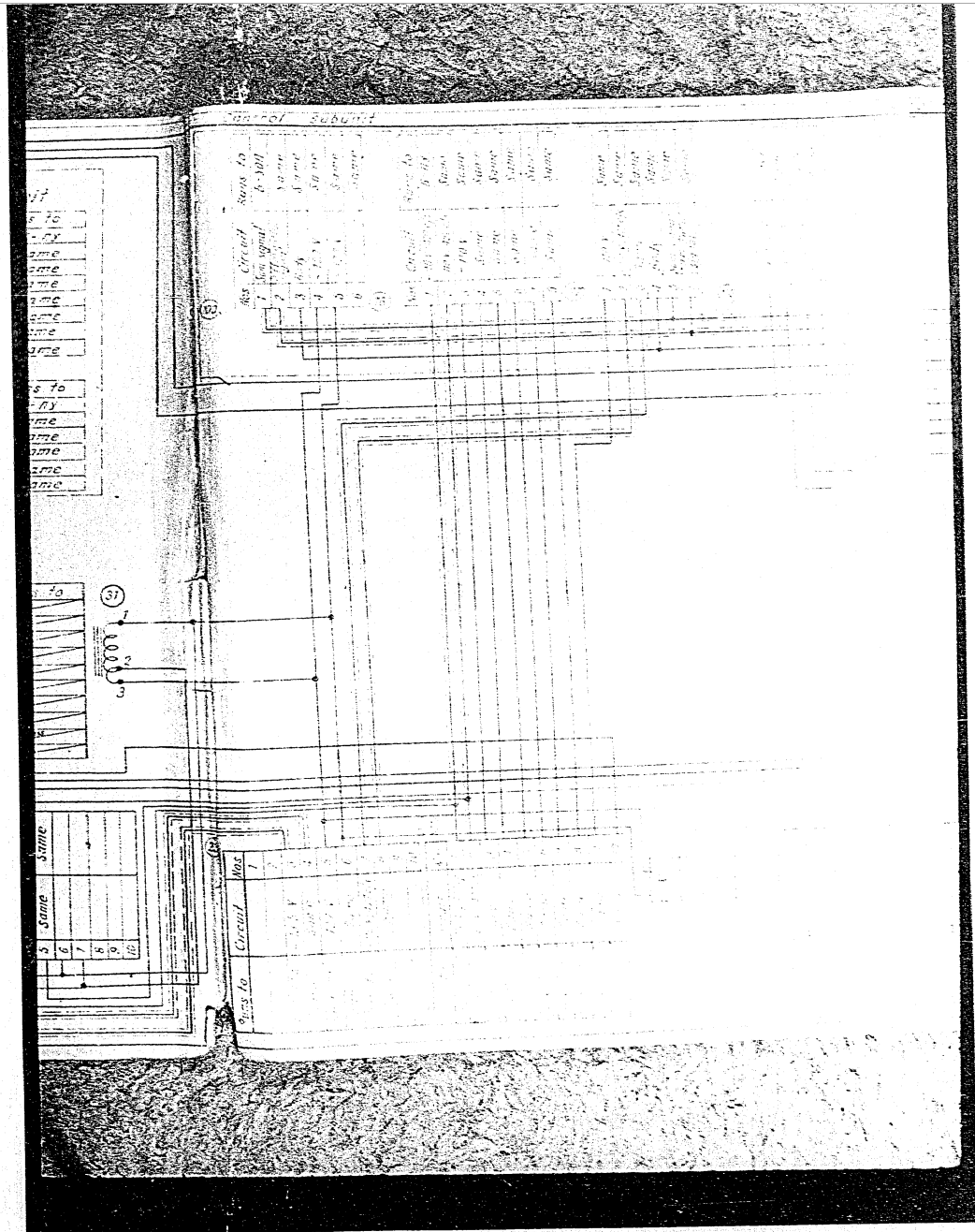
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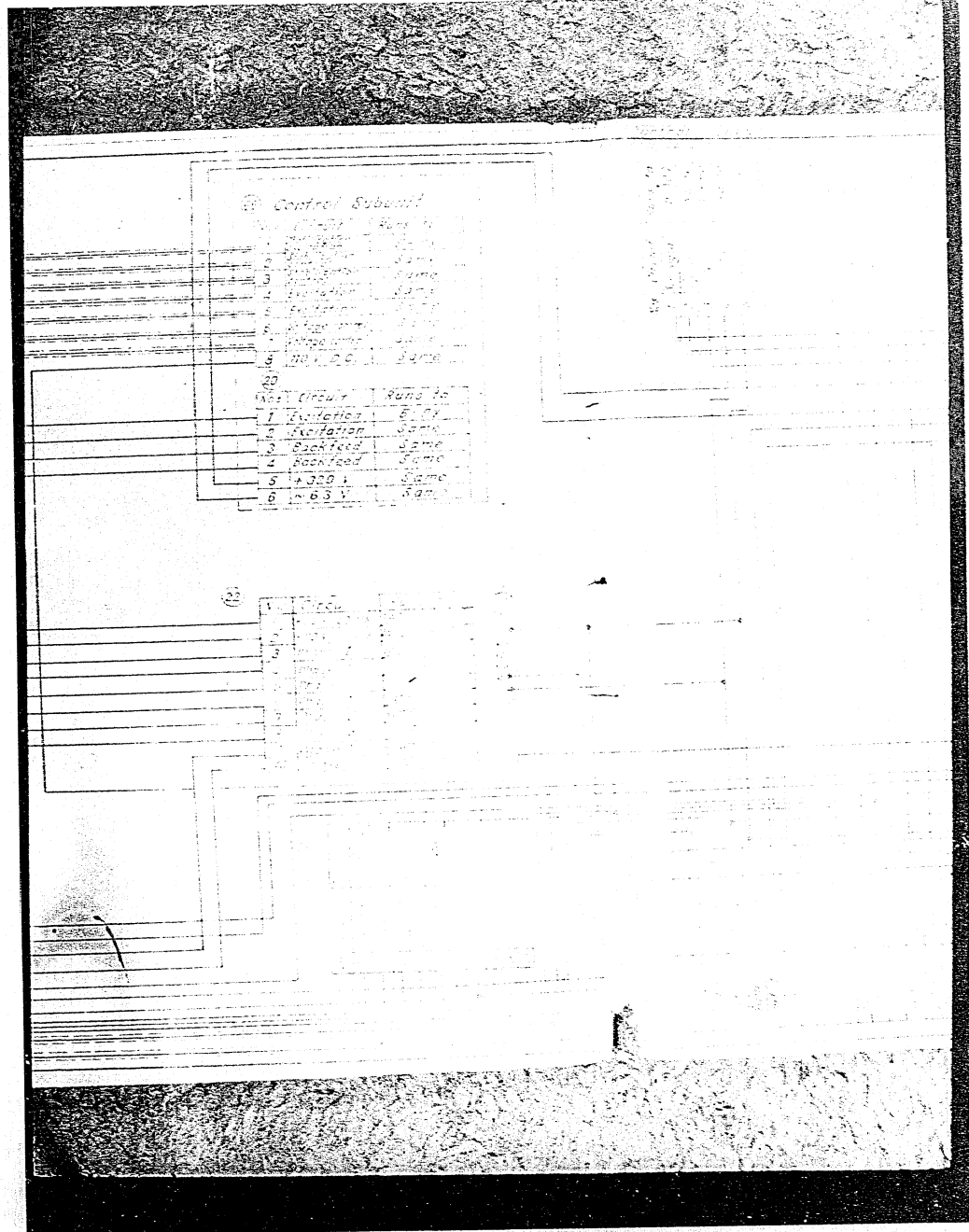
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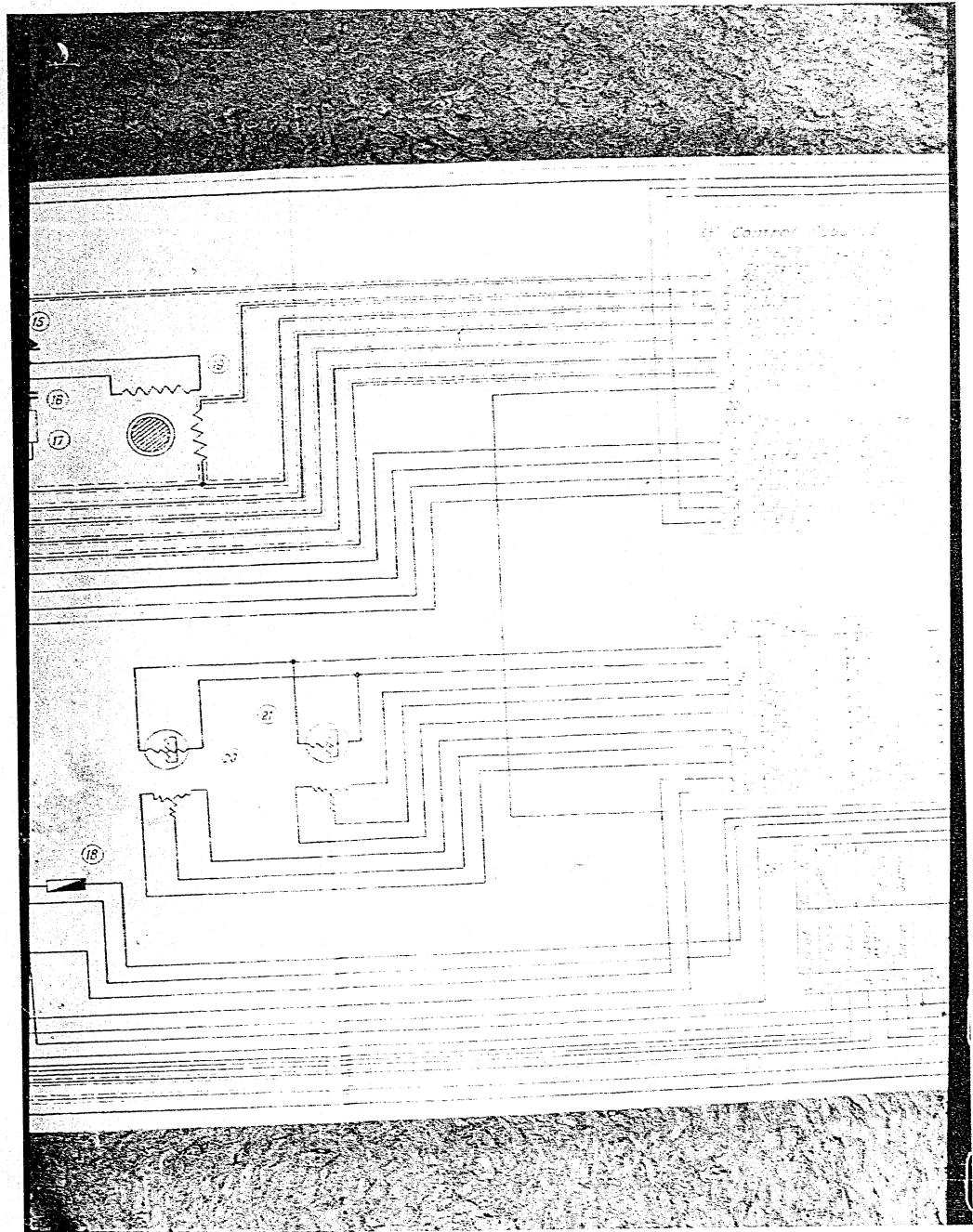
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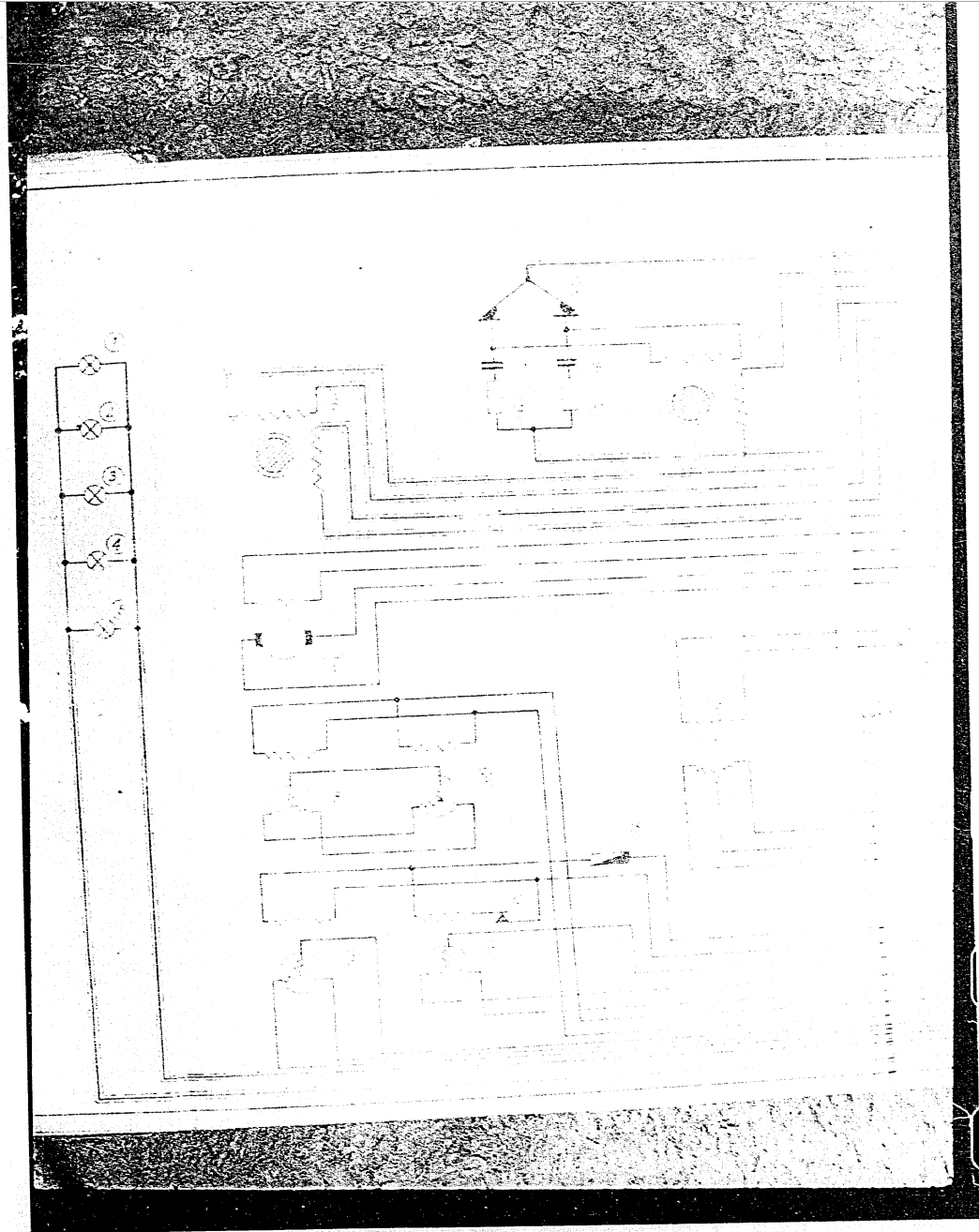
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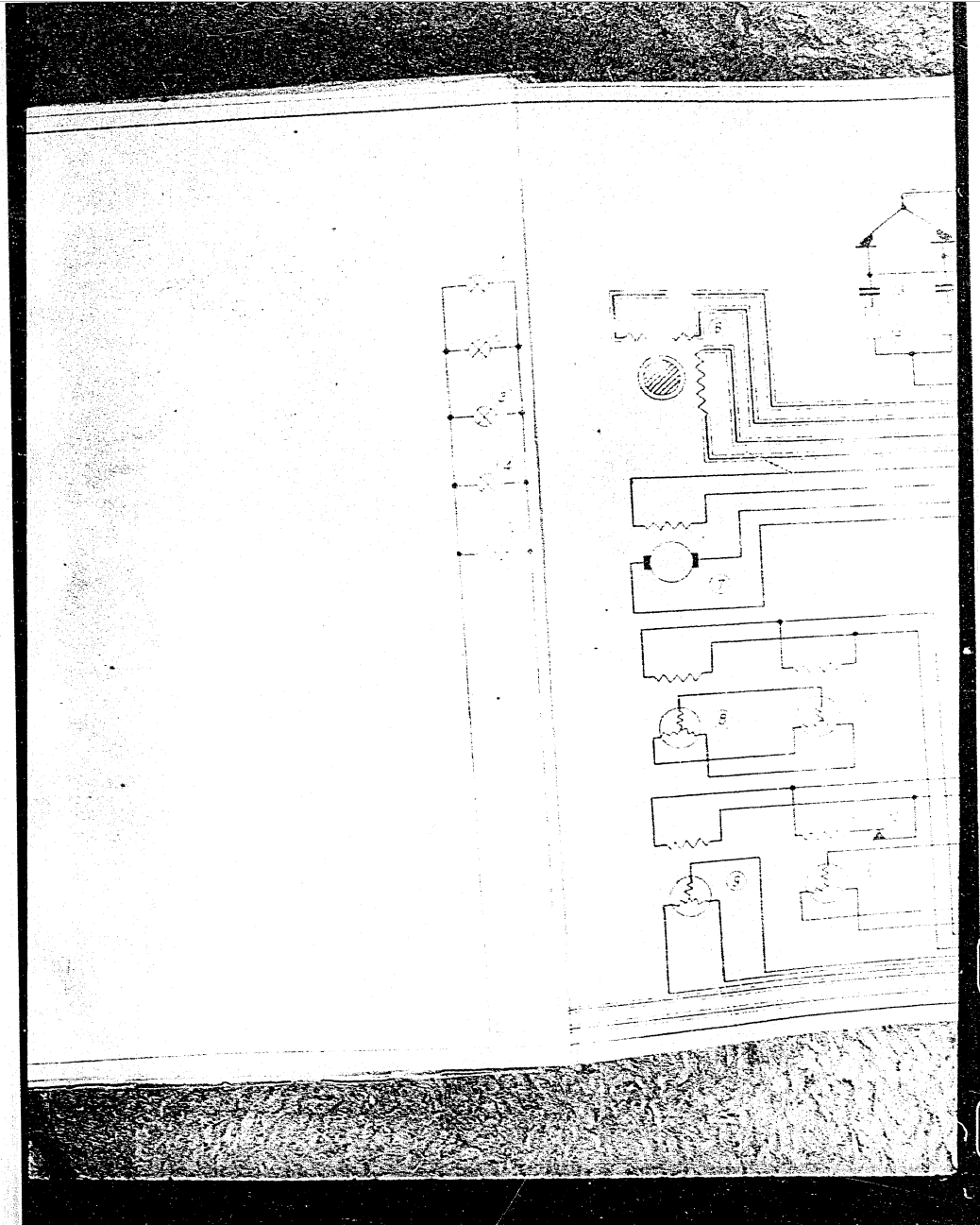
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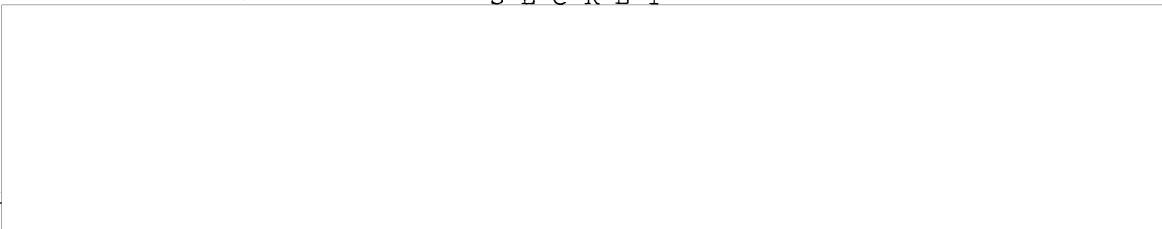


U N I T 2

SCHEMATIC DIAGRAM

LZh 2.750.001 SxE

S E C R E T



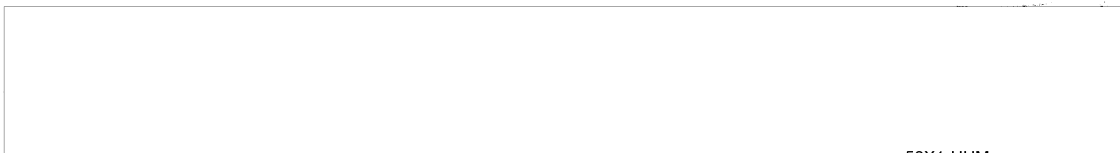


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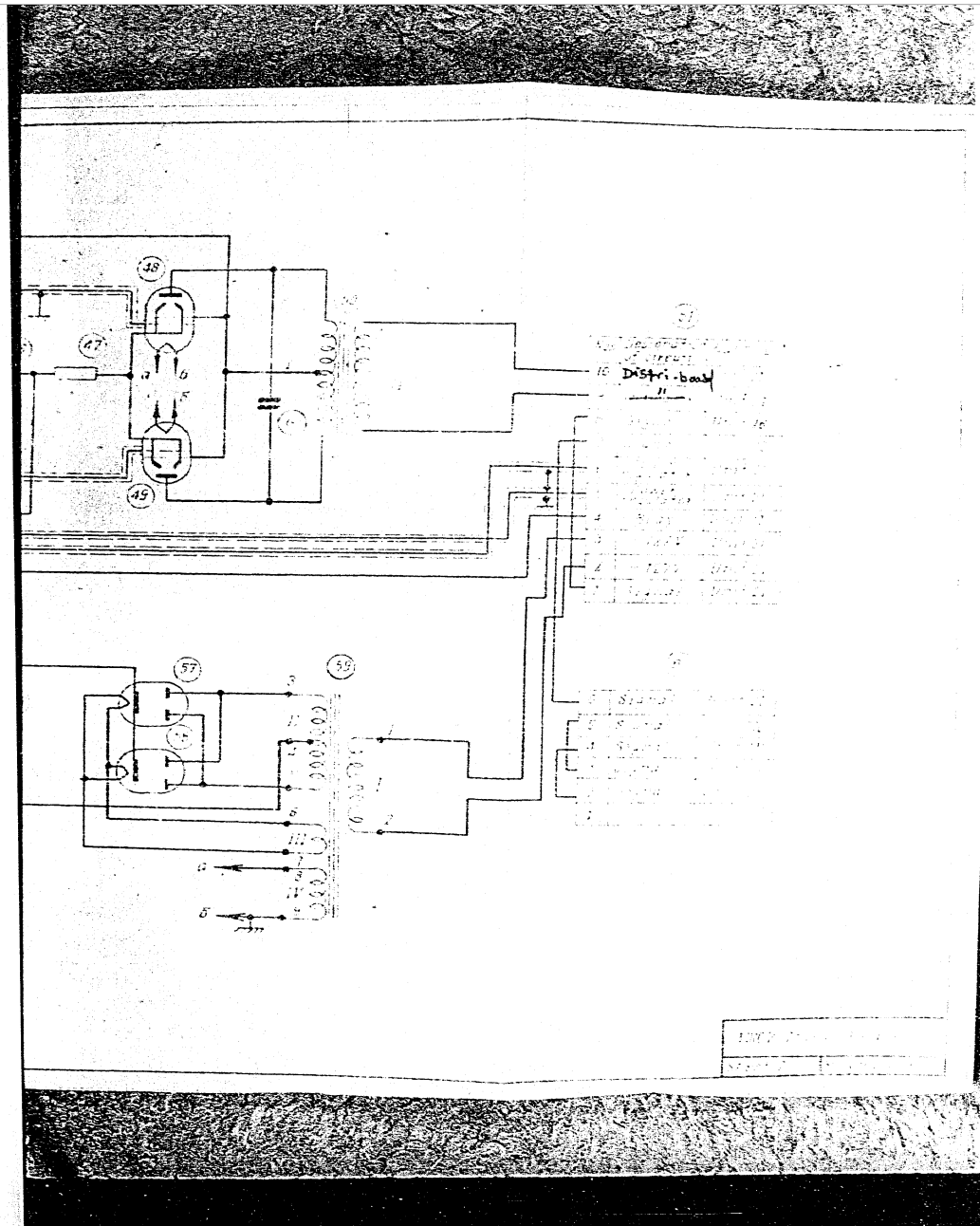
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DIAGRAM

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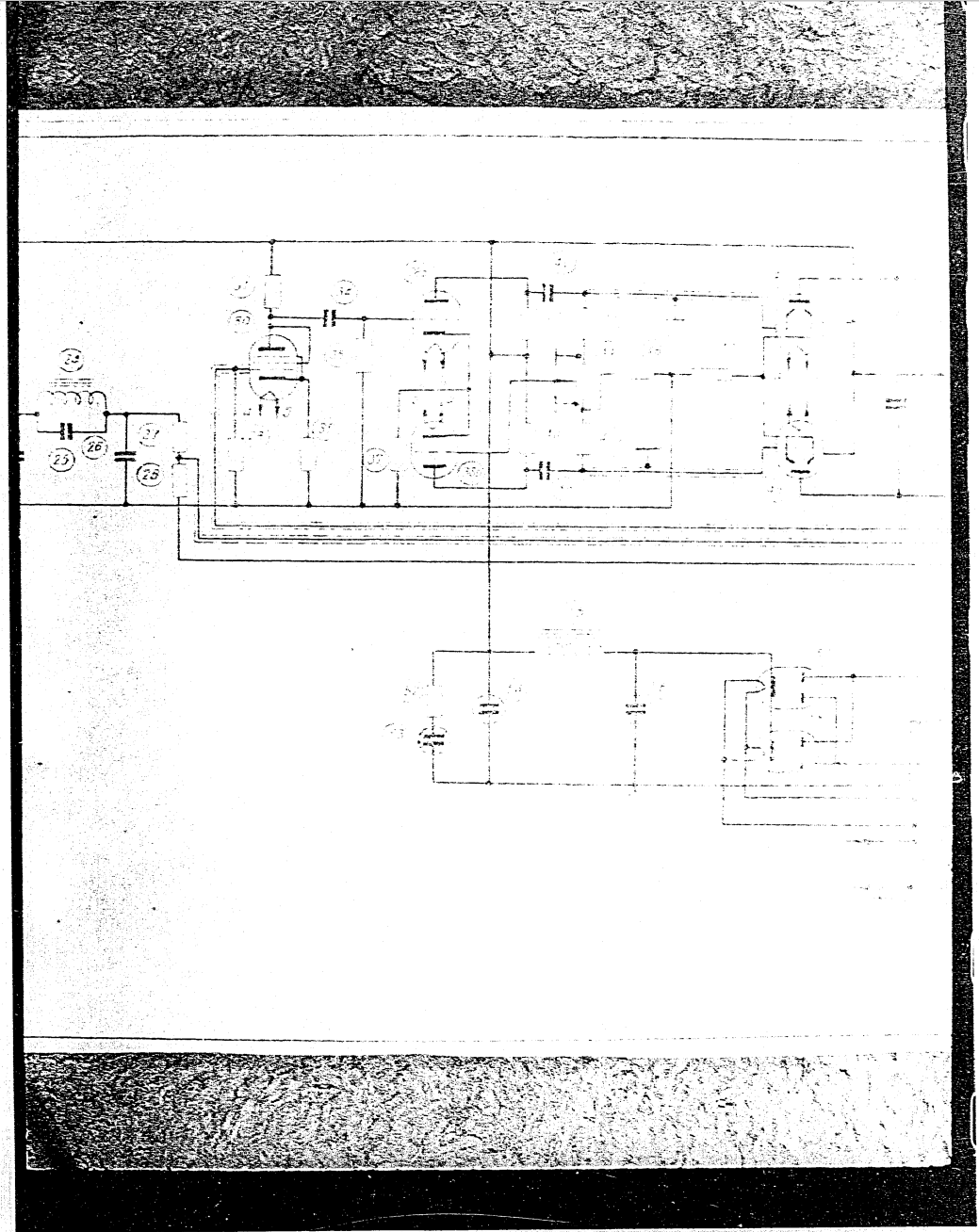


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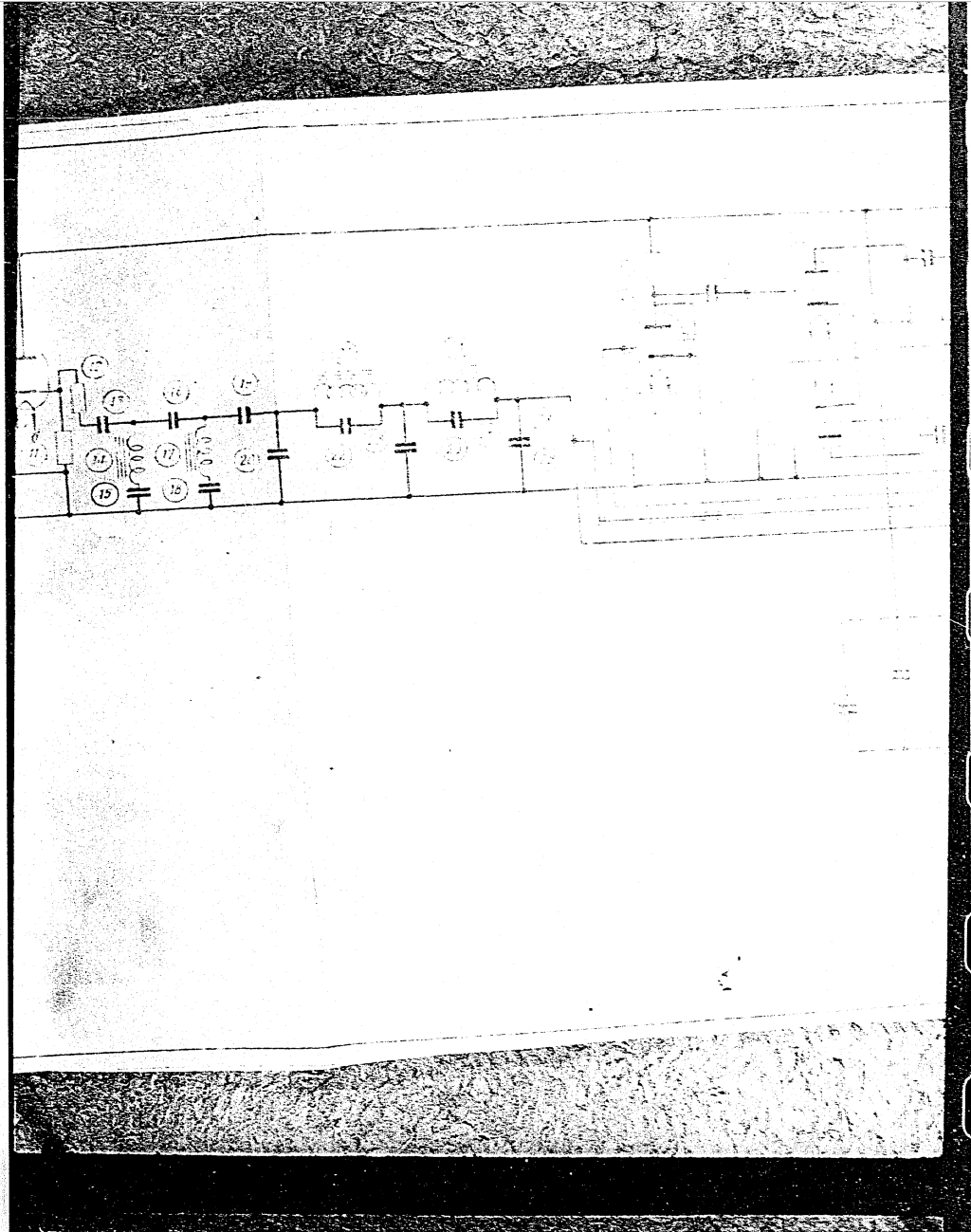
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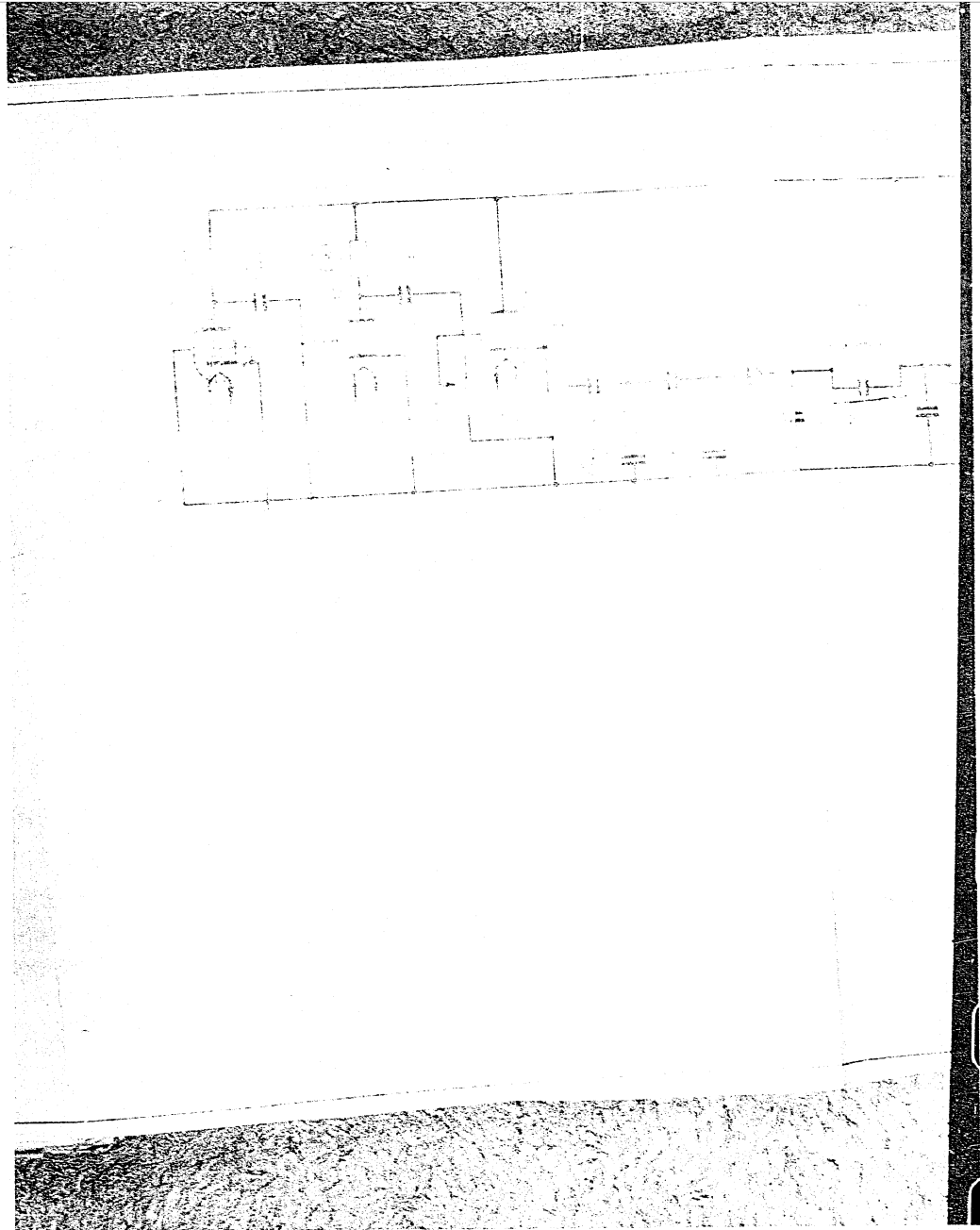
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Ref. No.	GOST, Spec., Standard, Drawing	Description	Rating	Qty	Note
1	ОЭО.467.003TV	Resistor МНТ-0.5-1-11-A	1 megohm	1	
2	ОЭО.467.003TV	Resistor МНТ-2-02 kilohms-II	2 w: 02 kilohms	1	
3	4TV10-312-56	Lamp 1T-3-0.1/1.5		1	
4	ОЭО.462.024TV	Capacitor КБТ-1-00-0.015-II	0.015 μ F	1	
5	ОЭО.467.003TV	Resistor МНТ-0.5-0.51-11-A	0.51 megohm	1	
6	ОЭО.467.003TV	Resistor МНТ-1-12 kilohms-II	12 kilohms	1	
7a, 6	4TV01-105-53	Valve 6H1N		1	
8	ОЭО.467.003TV	Resistor МНТ-1-100-I	100 ohms	1	
9	ОЭО.462.024TV	Capacitor КБТ-1-00-0.015-II	0.015 μ F	1	
10	GOST 5574-60	Resistor ОН-11-gr. IV 2 W 02 kilohms	02 kilohms	1	
11	ОЭО.467.003TV	Resistor МНТ-0.5-020-1	020 ohms	1	
12	ОЭО.467.003TV	Resistor МНТ-0.5-270 ohms-1	270 ohms	1	
13	ОЭО.462.024TV	Capacitor КБТ-1-00-0.1-1	0.1 μ F	1	
	ОЭО.462.024TV	Capacitor КБТ-1-00-0.07-1	0.07 μ F	1	to be connected in parallel
	ОЭО.462.003TV	Capacitor КТМ-1-01-7500-1	7500 μ F	1	to be connected in series
14	ЛМ4.750.010	Choke	1225 mH 50V V RUM20 dia. 0.58	1	2 rings

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50X1-HUM

50X1-HUM

Ref. No.	GOST, Spec., Standard, Drawing	Description	Rating	Qty	Note
15	OEO.462.022TV	Capacitor MBTH-2-200-0.25-11	0.25 μ F	1	to be connected in parallel
	OEO.462.021TV	Capacitor KST-M-200-1.05-1	1.05 μ F	1	
16	OEO.462.021TV	Capacitor KST-M-200-0.05-1	0.05 μ F	1	to be connected in parallel
	OEO.462.021TV	Capacitor KST-M-200-0.05-1	0.05 μ F	1	
	OEO.461.003TV	Capacitor CTM-1-500-F-5000-1	5000 μ F	1	
17	RK4.750.008	Choke	L=23 mH 500 V R3010 dia. 0.59	1	2 rings T4-60r-44-0.75
18	OEO.462.022TV	Capacitor MBTH-2-200-0.5-1	0.5 μ F	1	to be connected in parallel
	OEO.462.021TV	Capacitor KST-M-200-0.07-1	0.07 μ F	1	
19	OEO.462.021TV	Capacitor KST-M-200-0.1-1	0.1 μ F	1	to be connected in parallel
	OEO.462.021TV	Capacitor KST-M-200-0.07-1	0.07 μ F	1	
	OEO.461.003TV	Capacitor CTM-1-250-F-7500-1	7500 μ F	1	to be selected in tuning
20	OEO.462.021TV	Capacitor KST-M-200-0.1-1	0.1 μ F	1	to be connected in parallel
	OEO.461.003TV	Capacitor CTM-1-500-F-5000-1	5000 μ F	1	
	OEO.461.003TV	Capacitor CTM-1-500-F-5000-1	5000 μ F	1	to be selected in tuning
21	RK4.750.009	Choke	L=23 mH 500 V R3010 dia. 0.59	1	2 rings T4-60r-44-0.75

50X1-HUM

50X1-HUM

Ratings	Qty	Ref. No.	GOST, Spec., Standard, Drawing	Description	Ratings	Qty	Note
25 μ F	1	22	OXO.461.003TV	Capacitor CFM-4-250-F-6800-I	6800 μ F	1	to be connected in parallel
25 μ F	1		OXO.461.003TV	Capacitor CFM-1-250-F-390-I	390 μ F	1	to be connected in parallel
25 μ F	1	23	OXO.461.003TV	Capacitor CFM-4-250-F-3200-I	8200 μ F	1	to be connected in parallel
25 μ F	1		OXO.462.021TV	Capacitor KBP-M-200-0.02-I	0.02 μ F	1	2 rings
25 μ F	1	24	LE4.750.003	Choke L=9.8 mH 320 V R3N20 dia. 0.59	6800 μ F	1	to be connected in parallel
25 μ F	1	25	OXO.461.003TV	Capacitor CFM-4-250-F-6800-I	390 μ F	1	to be connected in parallel
25 μ F	1		OXO.461.003TV	Capacitor CFM-1-250-F-390-I	0.015 μ F	1	to be connected in parallel
25 μ F	1	26	OXO.461.022TV	Capacitor KBP-M-400-0.015-I	3600 μ F	1	to be selected in tuning
25 μ F	1		OXO.461.003TV	Capacitor CFM-3-500-F-3600-I	100 μ F	1	
25 μ F	1	27	OXO.467.003TV	Resistor MNT-0.5-270-I	270 ohms	1	
25 μ F	1	28	OXO.467.003TV	Resistor MNT-0.5-240-I	240 ohms	1	
25 μ F	1	29	OXO.467.003TV	Resistor MNT-0.5-0.51-II-A	510 kilohms	1	
25 μ F	1	30	4TV01-103-53	Valve 6A1N	24 kilohms	1	to be connected in parallel
25 μ F	1	31	OXO.467.003TV	Resistor MNT-2-24 kilohms-II	0.015 μ F	1	
25 μ F	1	34	OXO.461.022TV	Capacitor KBP-M-400-0.015-II	510 kilohms	1	
25 μ F	1	35	OXO.467.003TV	Resistor MNT-0.5-0.51-II-A	200 ohms	1	
25 μ F	1	36	OXO.467.003TV	Resistor MNT-0.5-200-I	270 ohms	1	
25 μ F	1	37	OXO.467.003TV	Resistor MNT-1-270-I			

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50X1-HUM

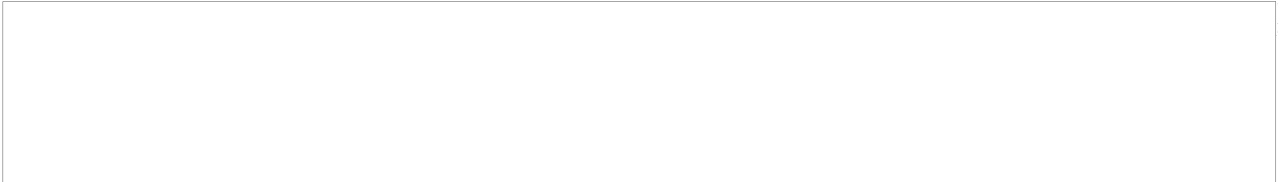
Ref. No.	GOST, Spec., Standard, Drawing	Description	ratings	Qty	Note
38a,b	4TYO1-105-53	Valve 6H1H		1	
39	0E0.461.022TV	Capacitor	0.015 μ F	1	
40	0E0.467.003TV	KSP-M-400-0.015-II Resistor	12 kilohms	1	
41	0E0.467.003TV	MNT-0.5-12,000-II-A Resistor	7.5 kilohms	1	
42	0E0.461.022TV	MNT-0.5-7500-II Capacitor	0.015 μ F	1	
43	0E0.467.003TV	KSP-M-400-0.015-II Resistor	68 kilohms	1	
44	GOST 5574-60	MNT-0.5-68,000-II-A Resistor	150 kilohms	1	
45	0E0.467.003TV	CH-II gr.IVA-2 W 150 kilohms Resistor	200 kilohms	1	
46	0E0.467.003TV	MNT-0.5-0.2-II-A Resistor	20 kilohms	1	
47	0E0.467.003TV	MNT-0.5-20,000-II-A Resistor	200 ohms	1	
48,49	4TY1-107-53	Valve 6H1H		2	
50	HE4.751.004	Transformer	I-685x2 turns N3B-2 dia. '0.1	1	winding I: tap from turn 665
		12x25	II-70 turns N3B-2 dia. 0.41		
51	HE3.656.003Ch	Terminal plate		1	
52	0E0.467.003TV	Resistor	240 kilohms	1	
53	GOST 9005-59	MNT-0.5-240-II-A Lamp TH-0.3		1	
54	TX0E0.464.001	3FL-26-400/20-M	20 μ F	1	to be connect- ed in parallel
	TV.0E0.464.001	3FL-26-400/20-M	20 μ F	1	
55	HE4.750.007	Choke 16x32	280 V N3B-2 dia.0.31	1	
56	TV.0E0.464.001	3FL-26-400/20-M	20 μ F	1	
57,58	4TY1-109-53	Valve 6H1H		2	
59	HE4.704.008	Transformer	I-570 turns N3B-2 dia. 0.41	1	wind- ing II: tap from turn 1200
		25x40	II-2400 turns N3B-2 dia. 0.25		

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Ref. No.	GCSI, Spec., Standard, Drawing	Description	Rating	Qty	Note
60	QEO-461.005TV	Capacitor	III-32 turns HGB-2 dia. 0.8 IV-32 turns HGB-2 dia. 1.16 1500 μ F	1	
61	HTJ.656.001Ca	CTM-3-500-P-1500-I Terminal plate		1	

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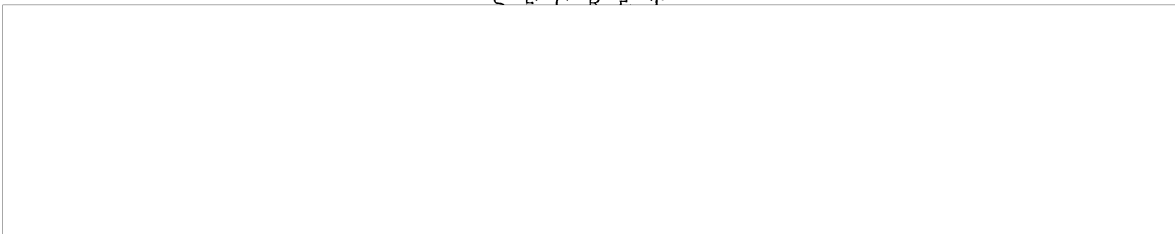


S U B U N I T T R

SCHEMATIC DIAGRAM

L3h 2.755.000 SXE

S E C R E T



50X1-HUM

List of Elements

Ref. No.	SIST, Spec., Standard Drawing	Description and type	Ref. No.	Note
1-100	ADCT 814 000	TRANSISTOR	1-100	
			1-101	
			1-102	
			1-103	
			1-104	
			1-105	
100	ADCT 814 000	TRANSISTOR		
101	ADCT 814 000	SAME		
102	ADCT 814 000	SAME		
103	ADCT 814 000	SAME		
104	ADCT 814 000	SAME		
105	ADCT 814 000	SAME		
106	ADCT 814 000	SAME		
107	ADCT 814 000	SAME		
108	ADCT 814 000	SAME		
109	ADCT 814 000	SAME		
110	ADCT 814 000	SAME		
111	ADCT 814 000	SAME		
112	ADCT 814 000	SAME		
113	ADCT 814 000	SAME		
114	ADCT 814 000	SAME		
115	ADCT 814 000	SAME		
116	ADCT 814 000	SAME		
117	ADCT 814 000	SAME		

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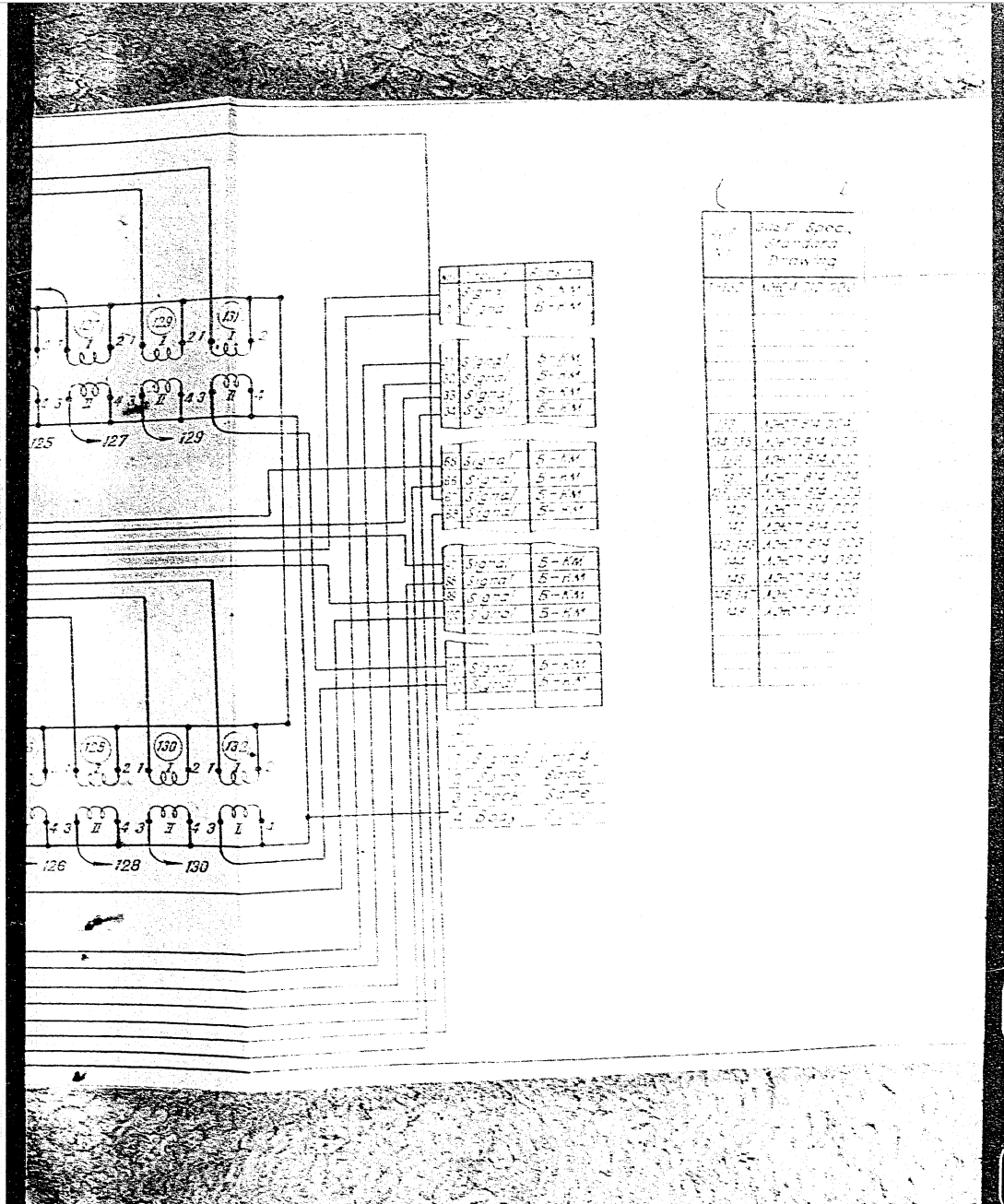
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SUBUNIT - TP
Schematic Diagram

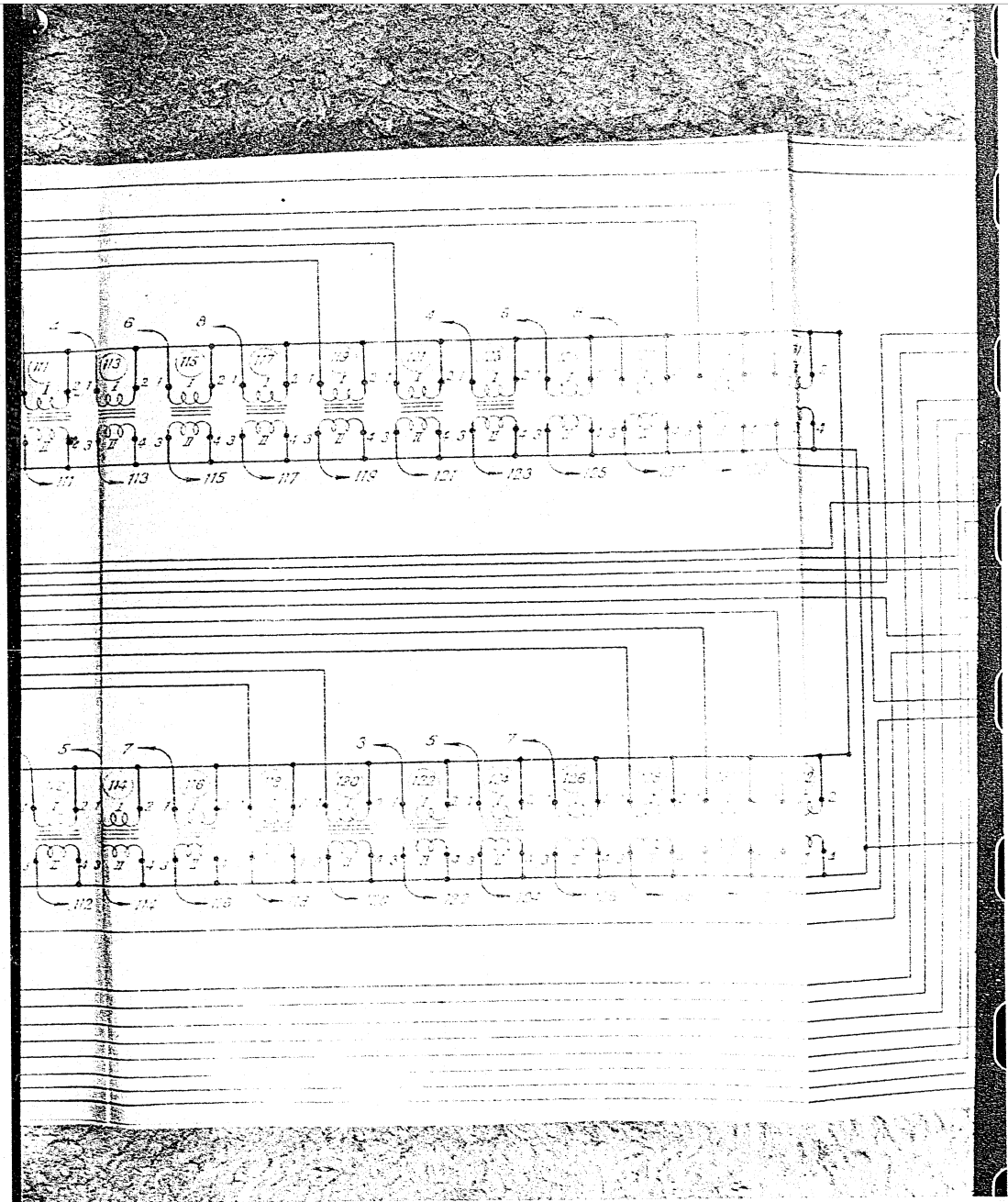
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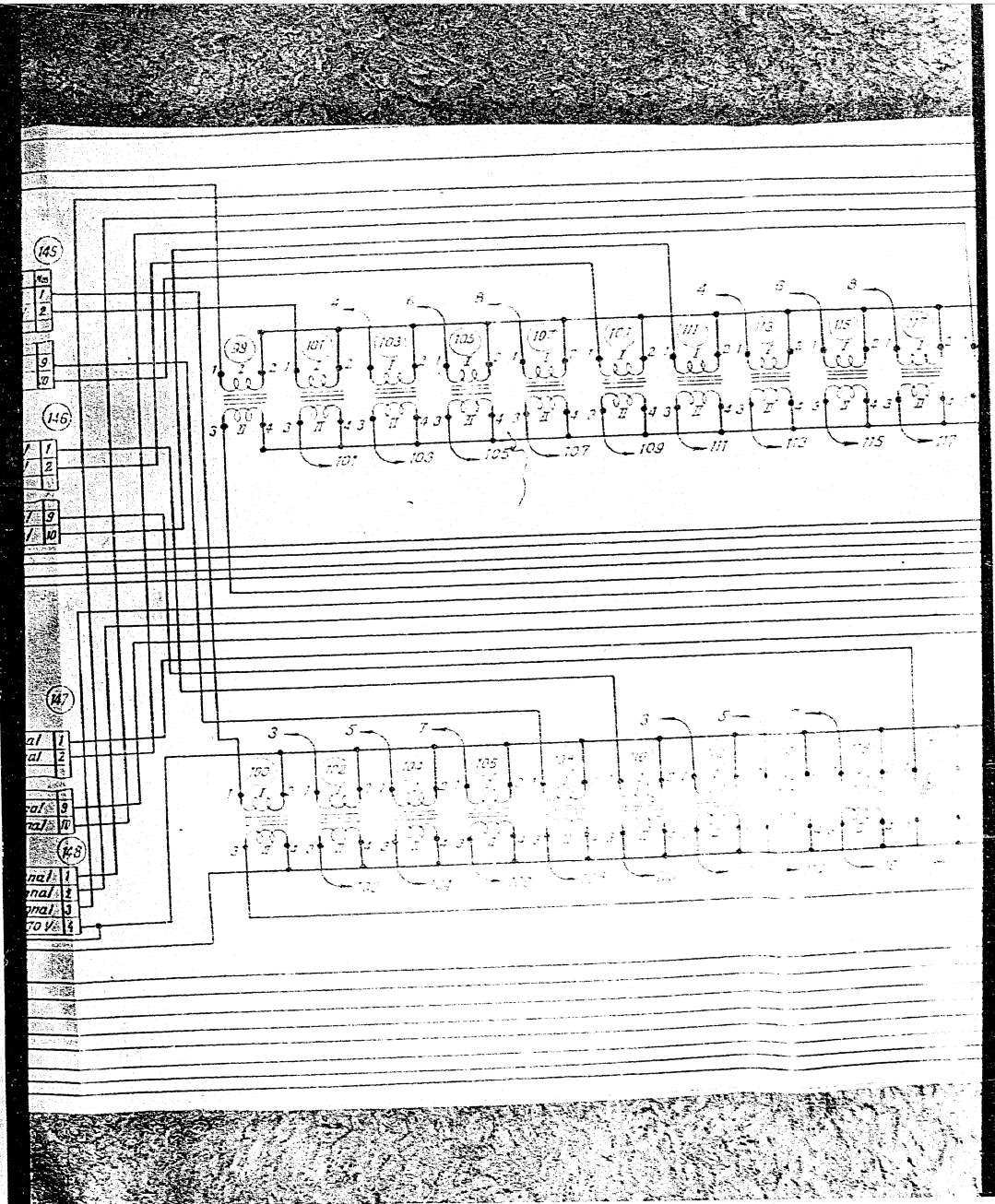
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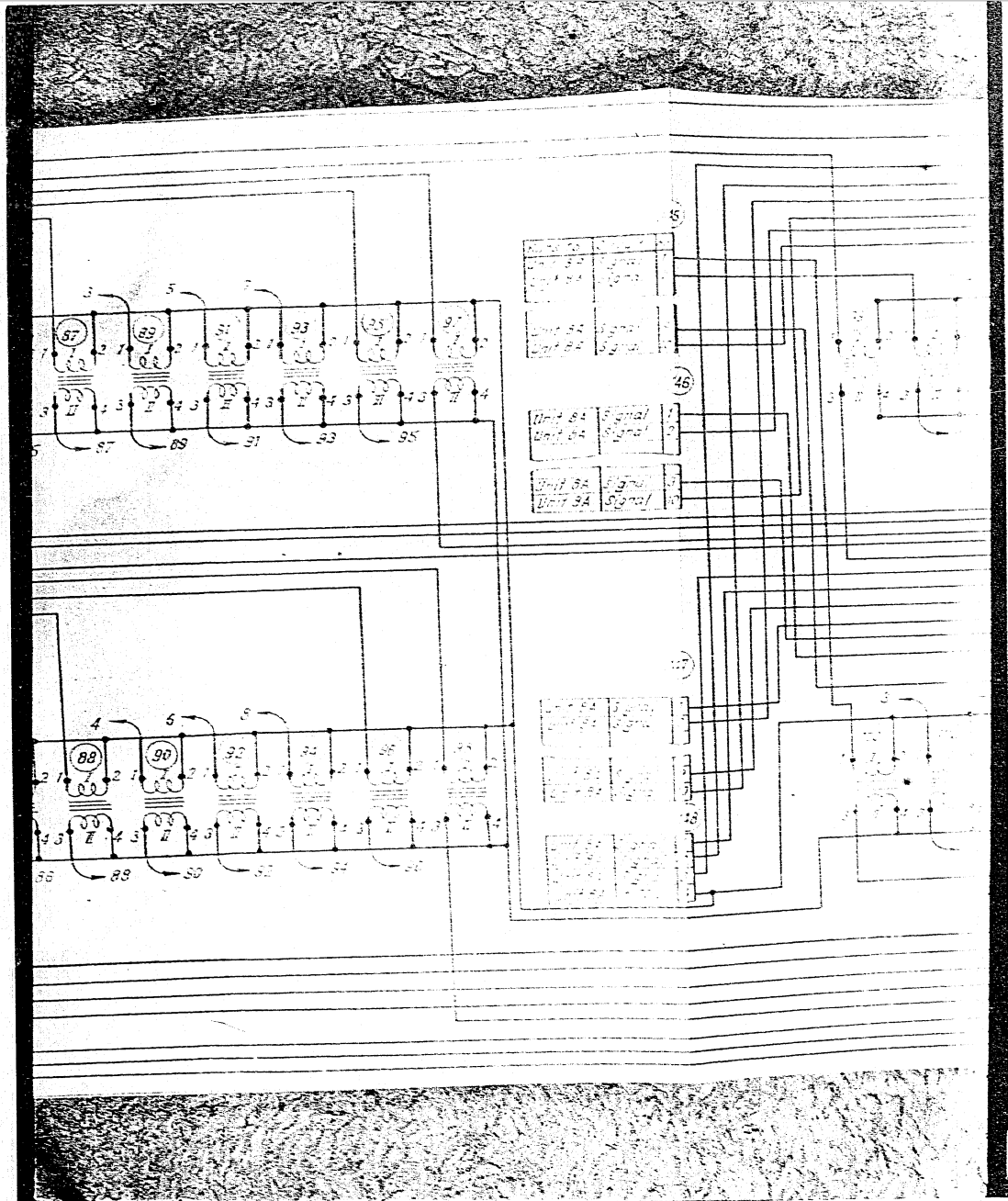
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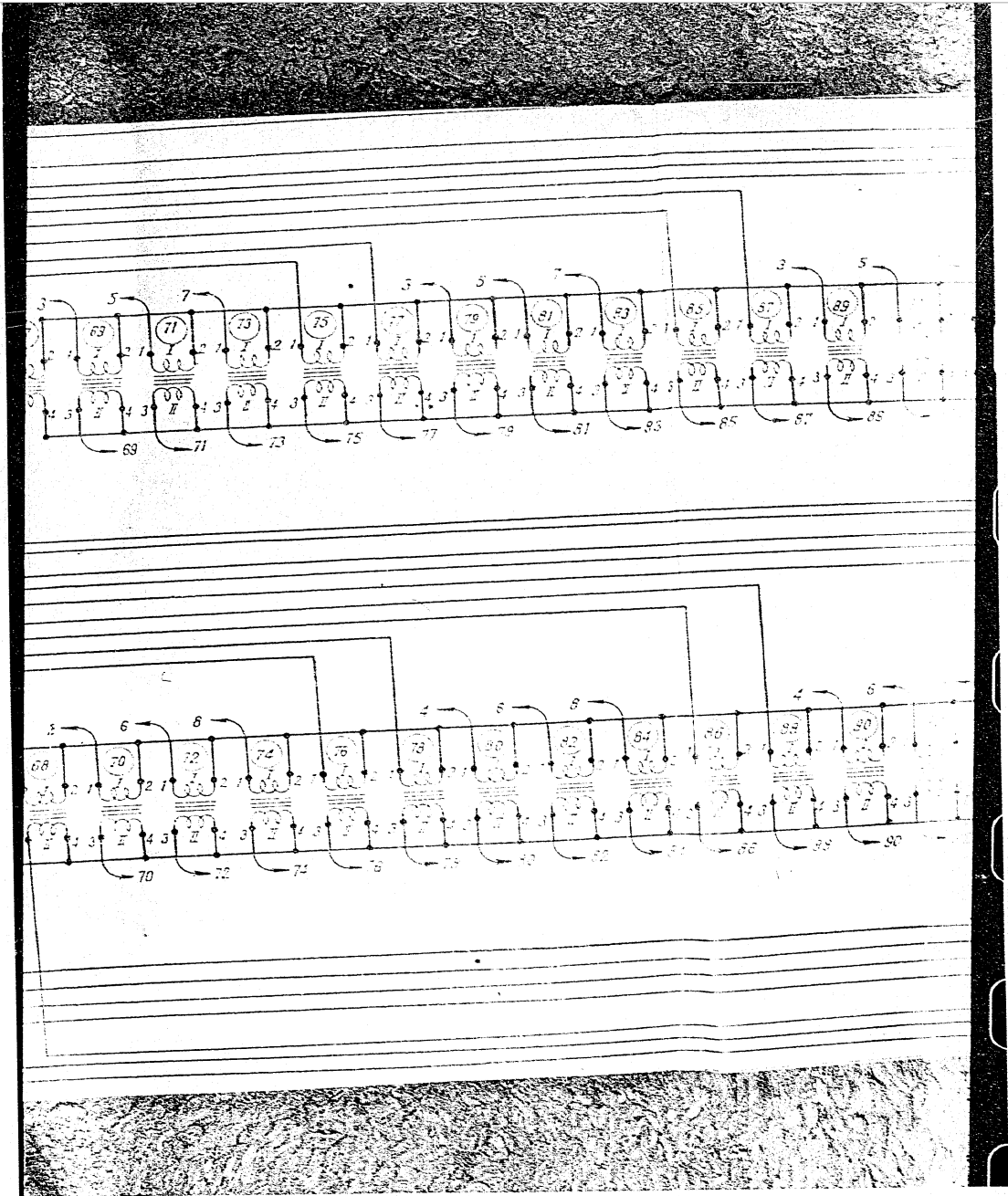
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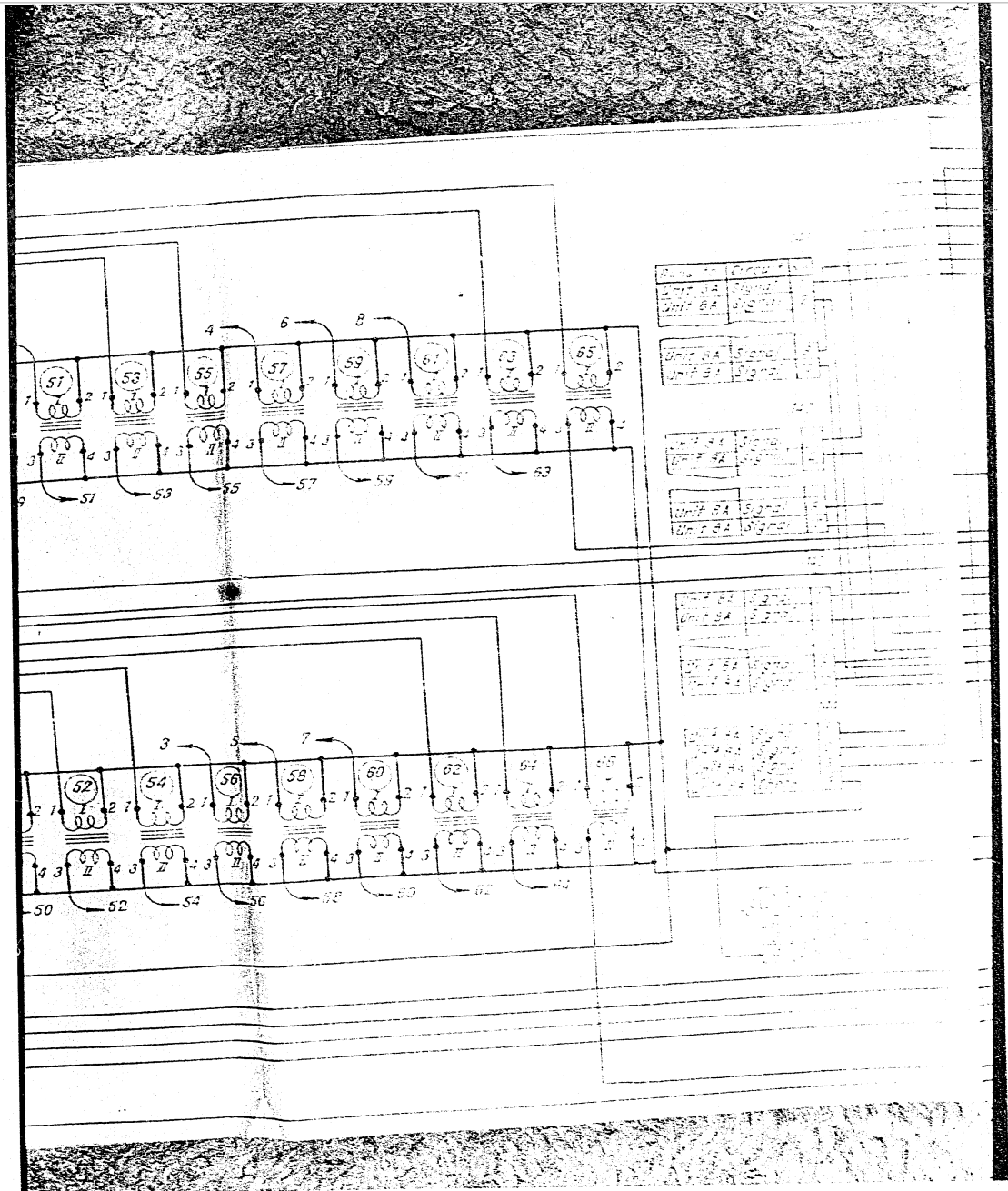
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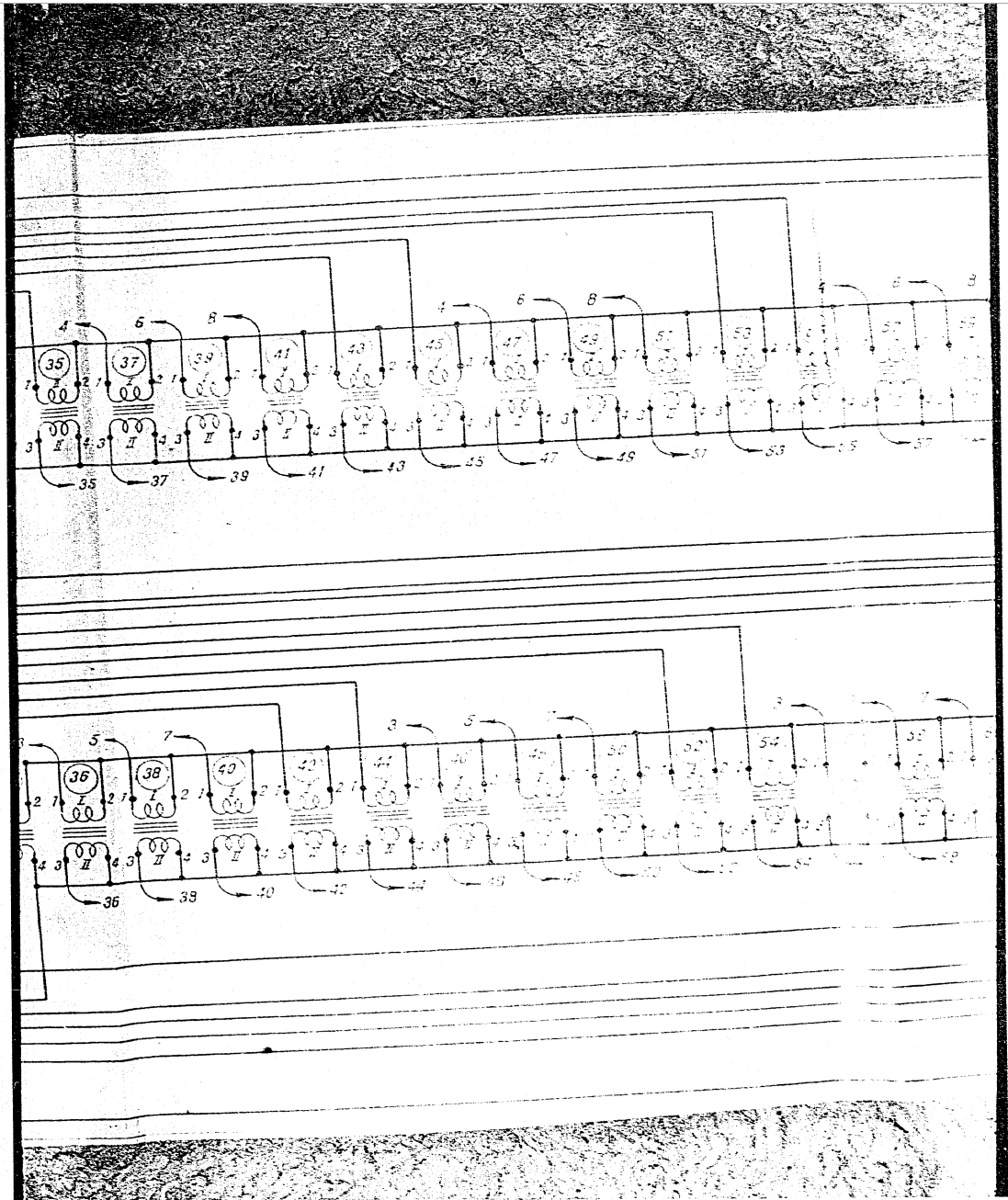
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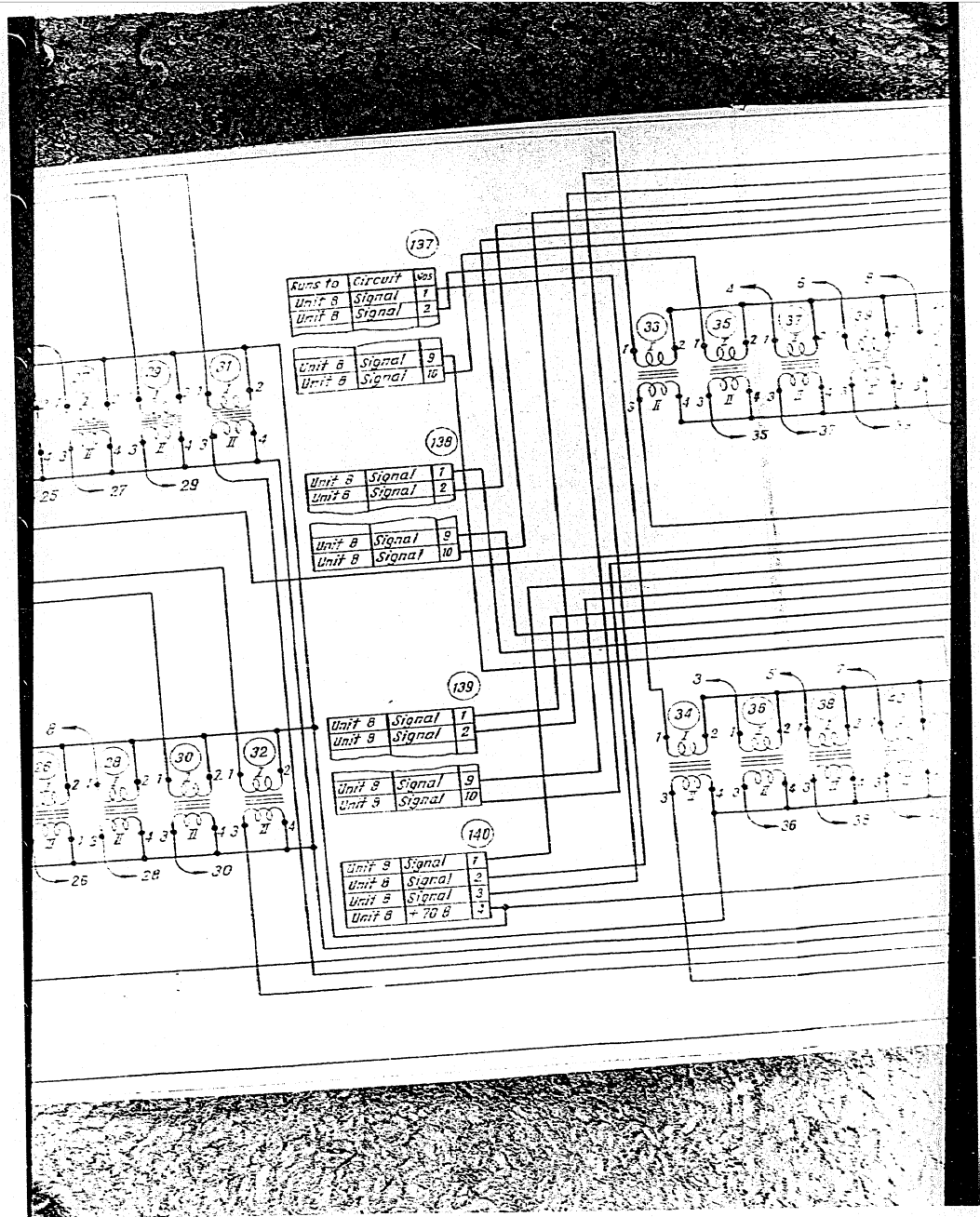


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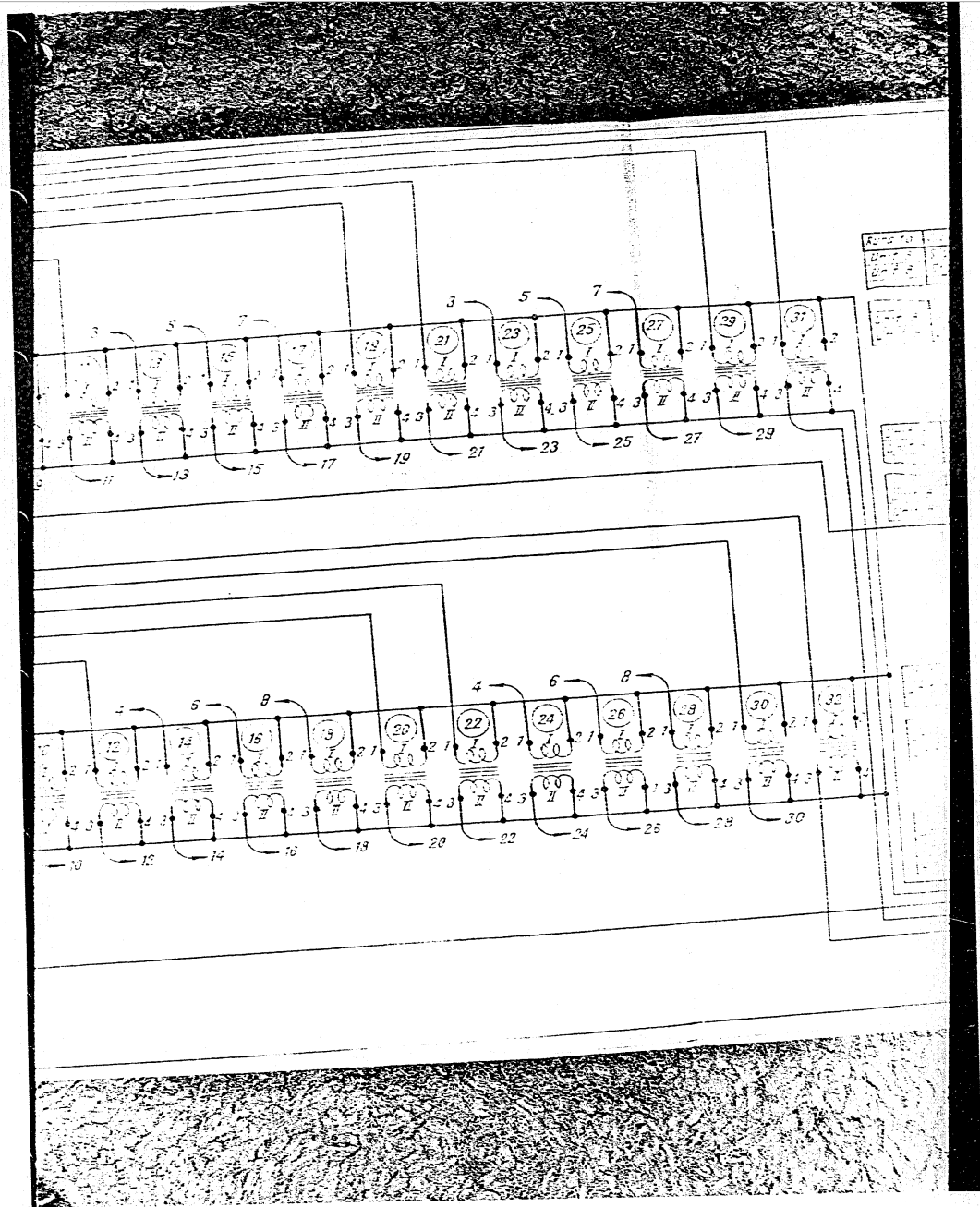
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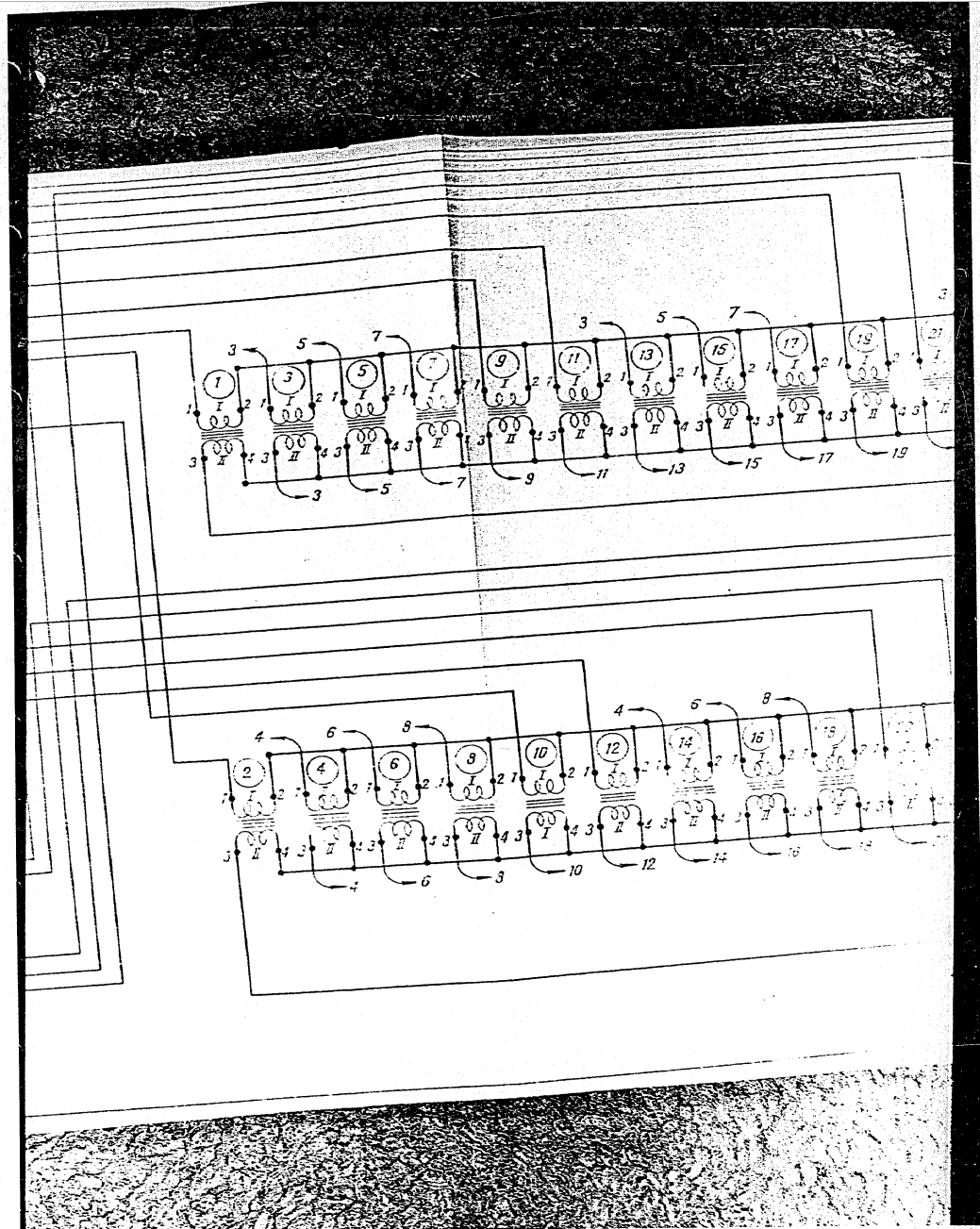
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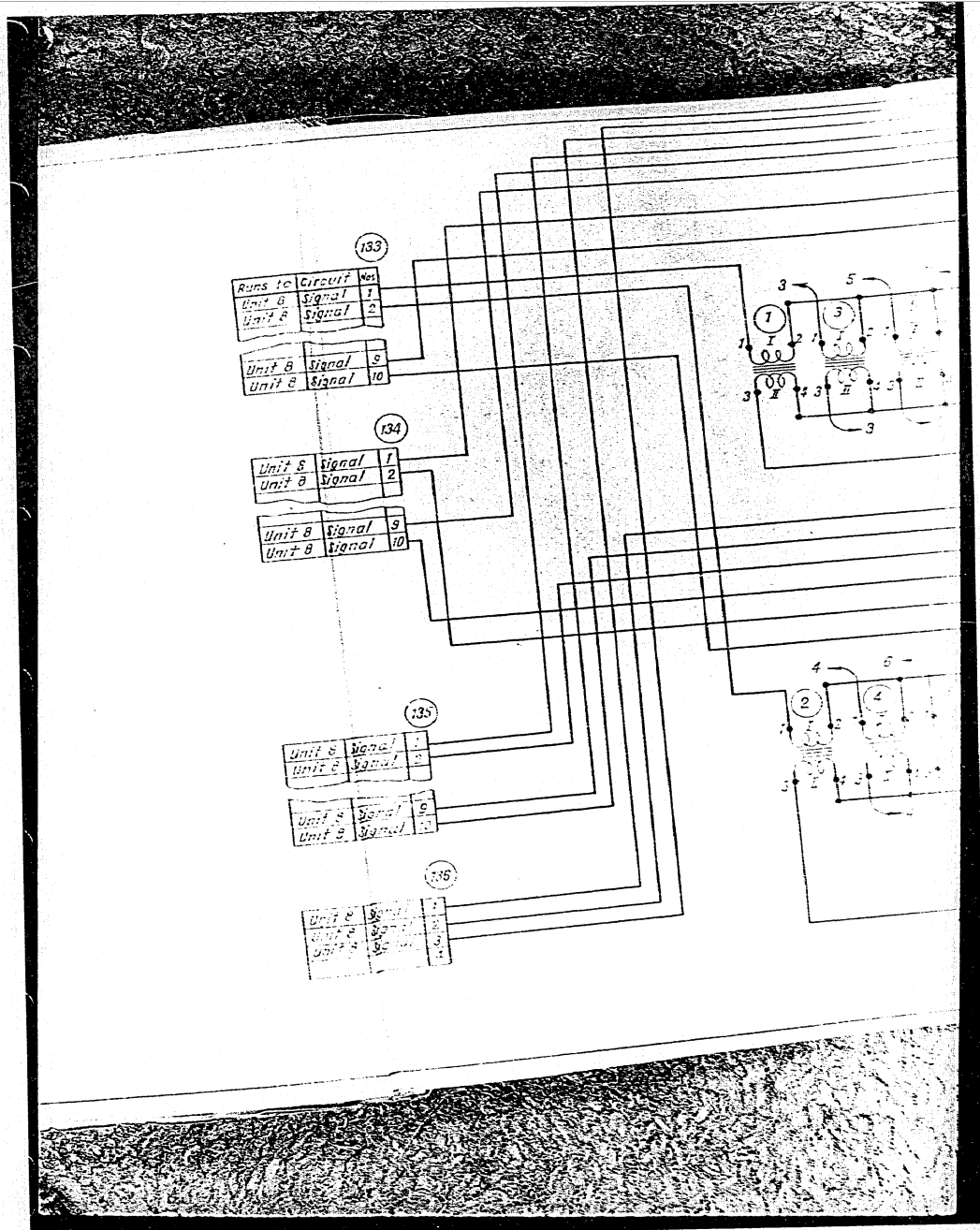
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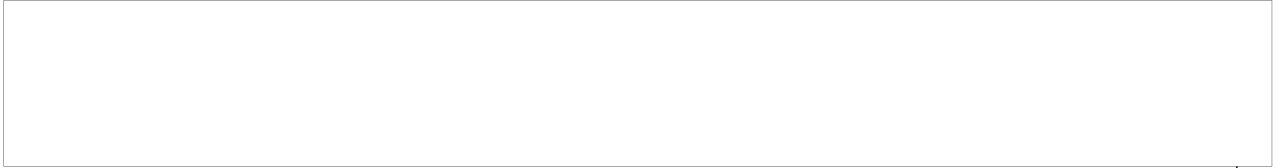


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U N I T 20A

RECTIFIER

SCHEMATIC DIAGRAM

IZh 3.210.000 SxE

S E C R E T



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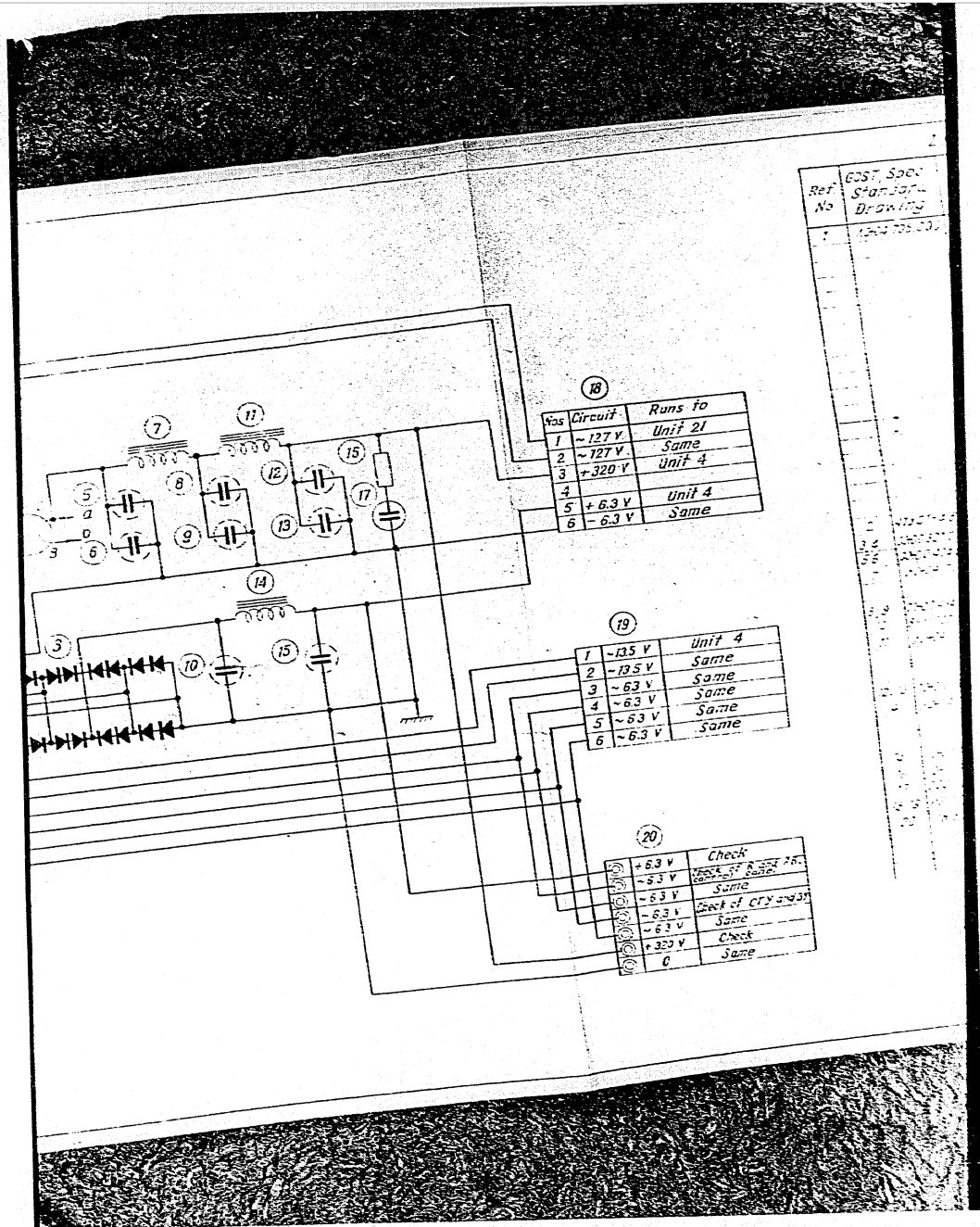
List of elements

Ref. No.	GOST, Spec, Standard Drawing	Description and type	Ratings	Qty	Note
1	1304-705.000	Transformer	0.32 x 50 1-2 1155-2 dia. 1.3; 400 W 3-4-5 1155-2 dia. 0.33 mm 1050 x 24 5; 7; 6; 9; 9; 19; 13 2 155-2 dia. 0.77 65 turns with taps from turns 61, 65, 69; 73; 77; 81 10-11 1155-2 dia. 1.1 45 turns 12-13 1155-2 dia. 1.45 22 turns 14-22 15-23 1155-2 dia. 1.45 24 turns with taps from turns 21 and 23 15-17 1155-2 dia. 1.45 18 turns	1	
2	47Y01-418-52	Valve 5436		1	
3, 4	0300321 011 473	Selenium rectifier 47M5A	20 A, 400 V	2	
5, 6	0300454 001 174	Capacitor 374-26 - 452 M	1000 uF, 400 V	2	
7	1304-750.005	Choke	1000 uF, 400 V	1	
8, 9	0300454 001 174	Capacitor 374-26 - 452 M	1000 uF, 400 V	2	
10	0300454 001 174	Capacitor 374-26 - 452 M	1000 uF, 400 V	2	
11	1304-750.005	Choke	1000 uF, 400 V	1	
12, 13	0300454 001 174	Capacitor 374-26 - 452 M	1000 uF, 400 V	2	
14	1304-750.005	Choke	1000 uF, 400 V	1	
15	0300454 001 174	Capacitor 374-26 - 452 M	1000 uF, 400 V	2	
16	0300454 001 174	Capacitor 374-26 - 452 M	1000 uF, 400 V	2	
17	0300454 001 174	Capacitor 374-26 - 452 M	1000 uF, 400 V	2	
18, 19	0300454 001 174	Capacitor 374-26 - 452 M	1000 uF, 400 V	2	
20	15 527 070	Jack		1	

 UNIT 20 A
 Schematic Diagram

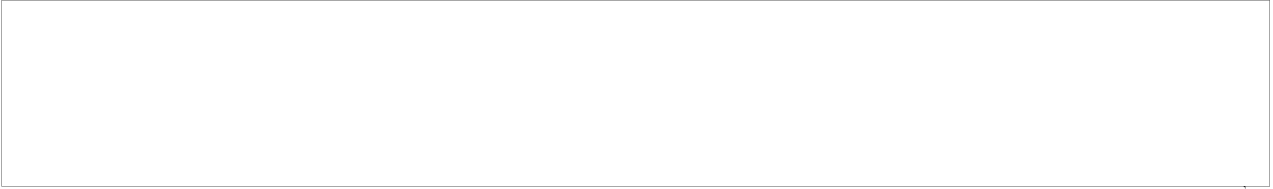
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U N I T 20

RECTIFIER

SCHEMATIC DIAGRAM

LZh 3.214.050 SxE

S E C R E T



50X1-HUM

Qty	Note	Ref. No.	6037, Spec. Standard, Drawing	Description and type	Rating	Qty	Note
1	Windings 5 6 and 3-flare wound using twin wires	19.20	OKC464 006TY	Capacitor K3F-2-300-50-0M	50 MF, 500V	2	To be connected in parallel
22		21	OKC467 003TY	Resistor MAT-05-220 kilohms $\pm 10\%$	220 kilohms	1	
1		22	6037 9005-59	Lamp TH-03	0132-64	1	
1		23	AK4.754.102cm	Choke	054 dia 2.23 175 turns clearance 2mm	1	
1					1000 MF, 50V	2	To be connected in parallel
1		24.25	OKC464 006TY	Capacitor K3F-2-30-1000-0M	1032-64	1	
1		26	AK4.754.102cm	Choke	054 dia 2.23 175 turns clearance 2mm	1	
1		27.28	OKC464 006TY	Capacitor K3F-2-30-100-0M	1000 MF, 50V	2	To be connected in parallel
1		29	FW6.737.004	Plate for 10 terminals		1	
1		30	1B 527.001	Jack		1	
1		31.32	OKC464 006TY	Capacitor K3F-2-30-1000-0M	1000 MF, 50V	2	To be connected in parallel
1		33	AK3.660.011cm	Plate for 10 terminals		1	
1		34	OKC467 002TY	Resistor 1125-30 150 ohms $\pm 1\%$	300 ohms	2	To be connected in series

UNIT 20
Schematic Diagram

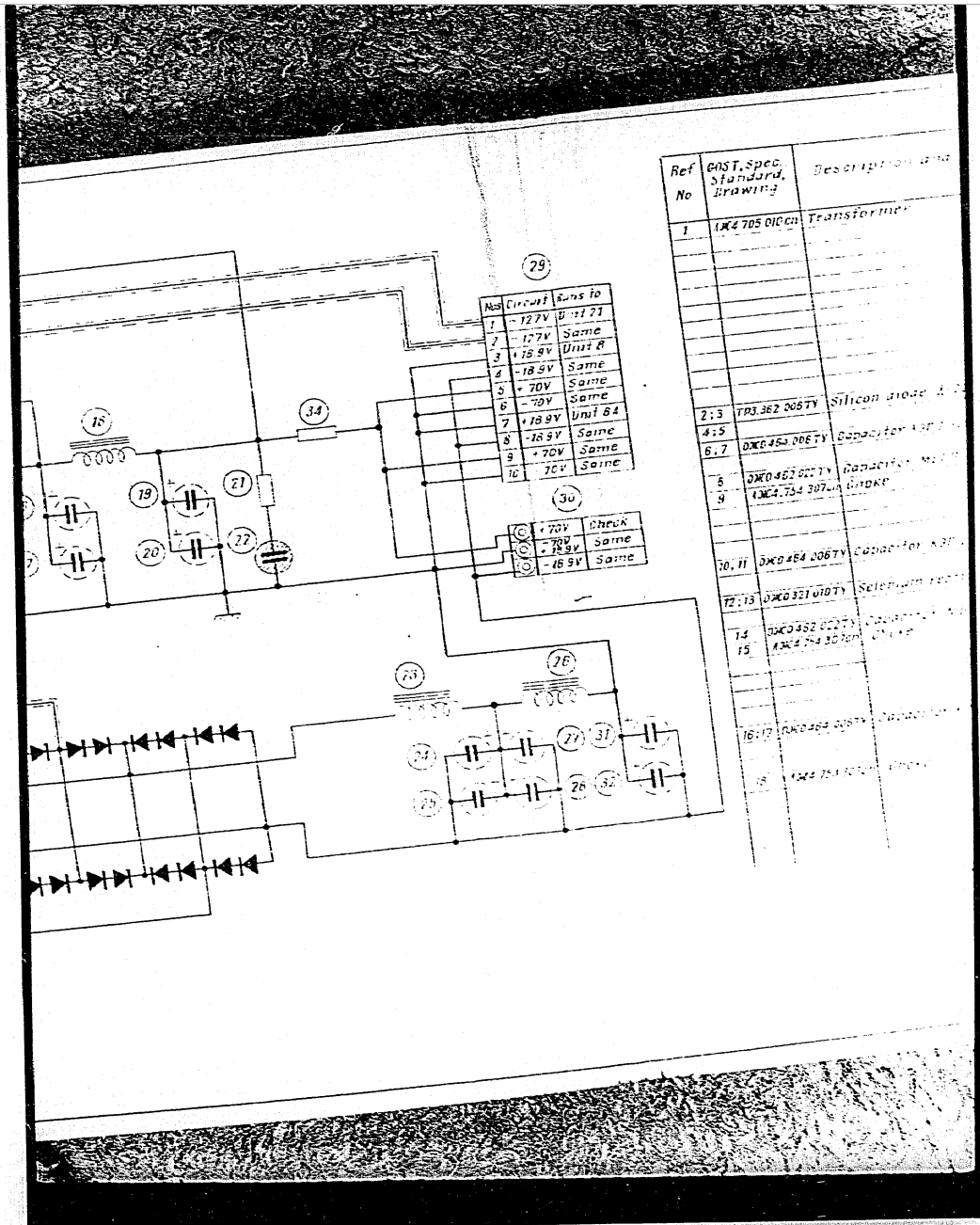
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Ref No	POST, Spec, Standard, Drawing	Description and type	Rating	Qty	Note	Ref No	POST, Spec, Standard, Drawing	
1	AK4705 0100	Transformer	11 10 x 40 1-3 128-2 dia 063 260 turns taps from turns 225 and 240 5-6 128-2 dia 15 200 turns 7-11 128-2 dia 244 58 turns taps from turns 47, 50 and 54	1	Wiring diagram 18 and 19 Wiring diagram 19 Wiring diagram 19	15, 20	AK4705 0100	
2, 3	TP3.362 006TY	Silicon diode 1-204	50 mF, 300V	2	To be connected by bridge circuit to be connected in parallel	24, 25	AK4705 0100	
4, 5	AK4705 006TY	Capacitor K3F-2 100-50-0M	2 mF, 400V 1020 x 40	1		26	AK4705 0100	
6, 7	AK4705 006TY	Capacitor MB17-1 400-2-12	128-2 dia 063 1250 turns clearance 1mm	1		27, 28	AK4705 0100	
8	AK4705 006TY	Choke	50 mF, 300V	2	To be connected in parallel to be connected in parallel	29	AK4705 0100	
10, 11	AK4705 006TY	Capacitor K3F-2 300-50-0M	1 mF, 200V 1020 x 40	1		30	AK4705 0100	
12, 13	AK4705 0100TY	Selenium rectifier 100W 2243	128-2 dia 063 1250 turns clearance 1mm	1		31	AK4705 0100	
14	AK4705 022TY	Capacitor MB17-1 400-2-12	50 mF, 300V	2	To be connected in parallel	32	AK4705 0100	
15	AK4705 3070	Choke	1020 x 40 128-2 dia 063 1250 turns clearance 1mm	1		33	AK4705 0100	
16, 17	AK4705 006TY	Capacitor K3F-2 300-50-0M	1020 x 40 128-2 dia 063 1250 turns clearance 1mm	1		34	AK4705 0100	
18	AK4705 3070	Choke				35	AK4705 0100	

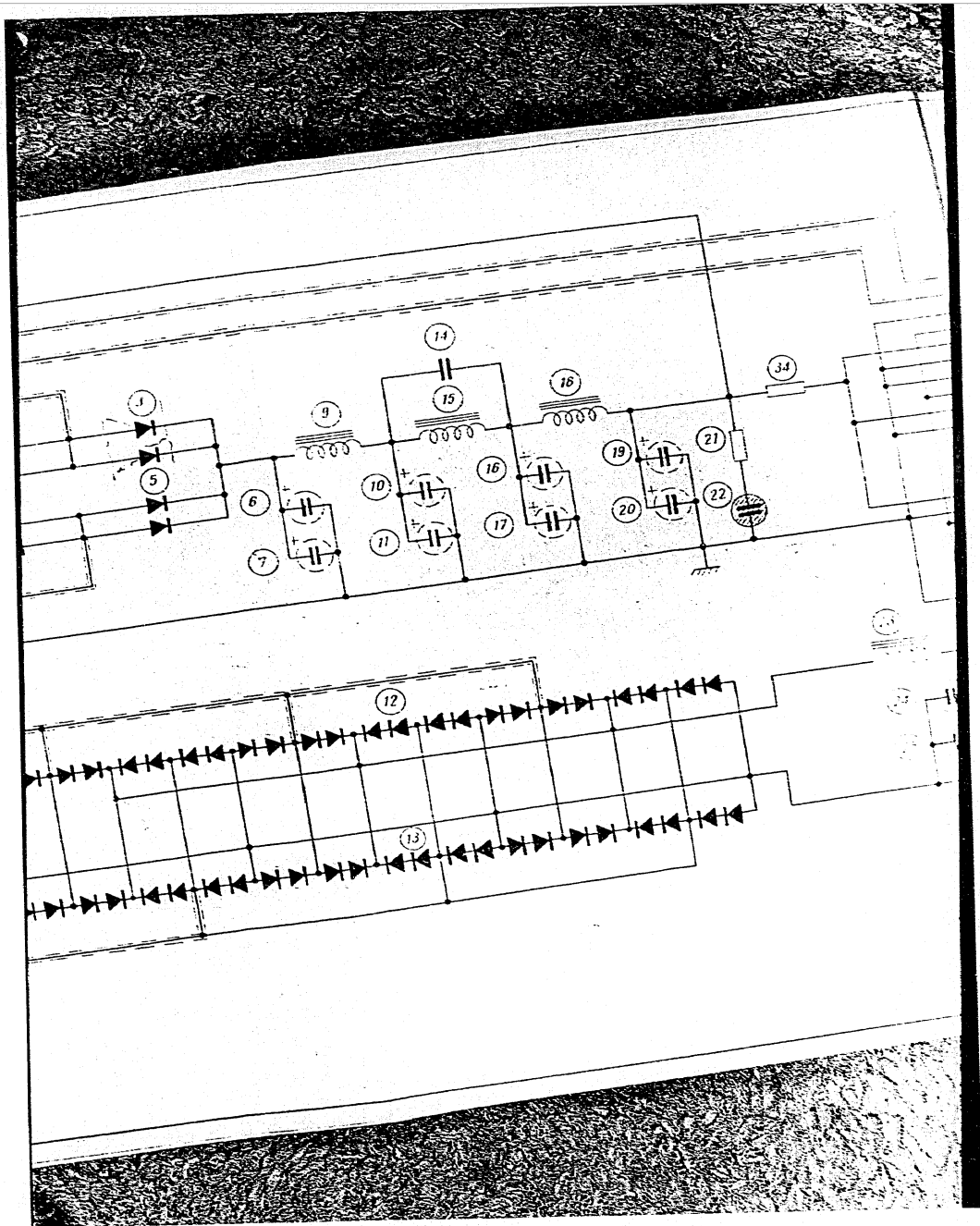
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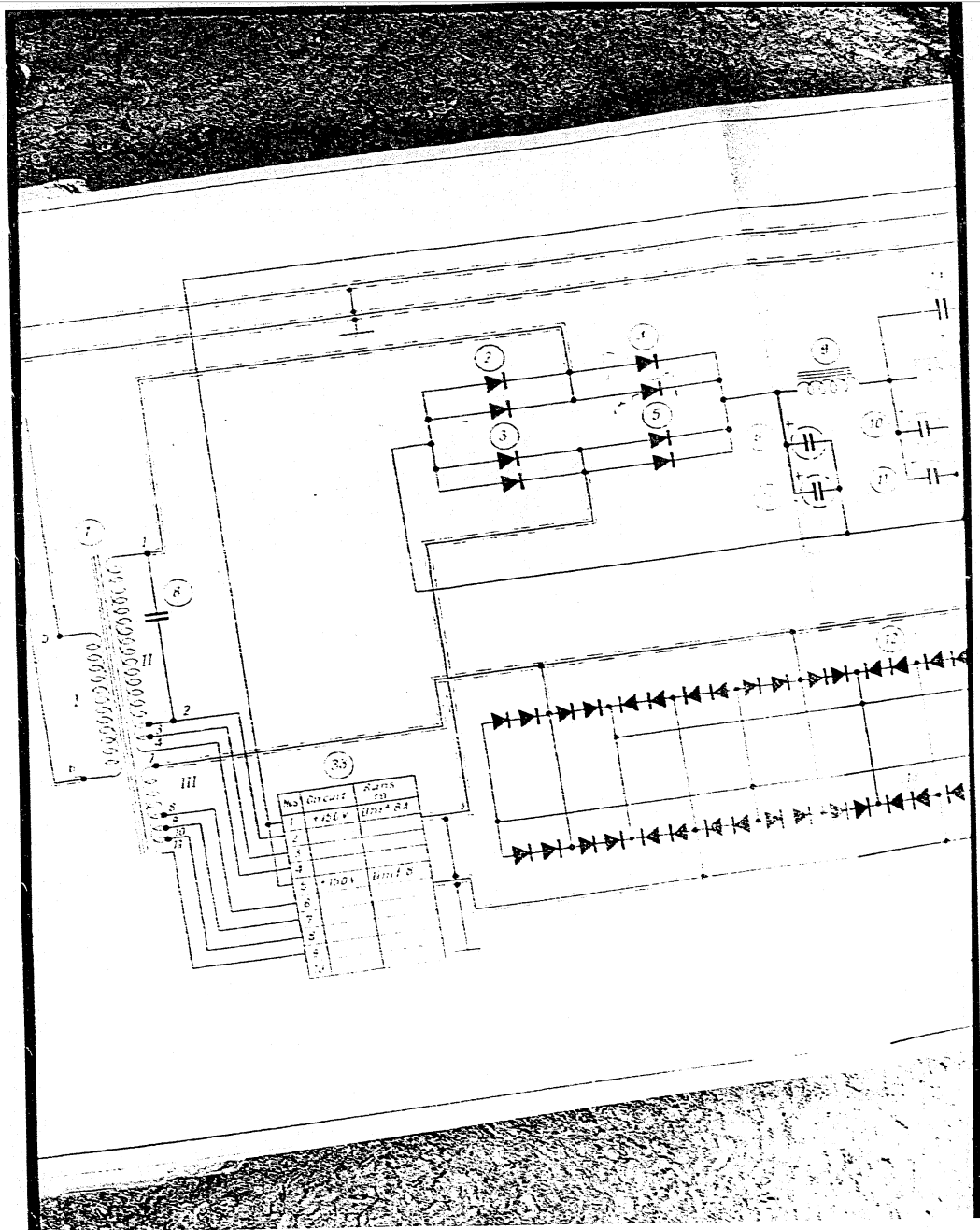
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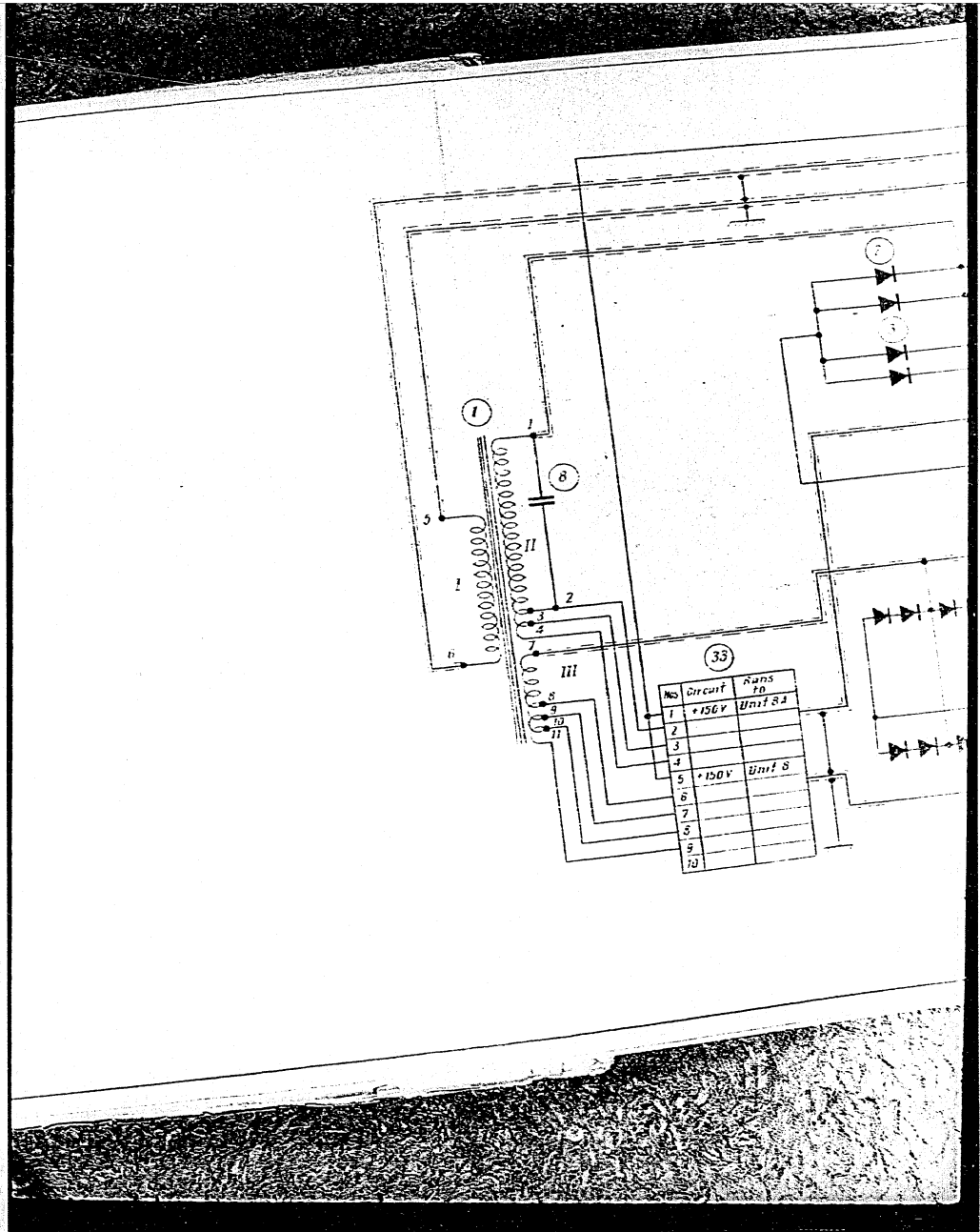
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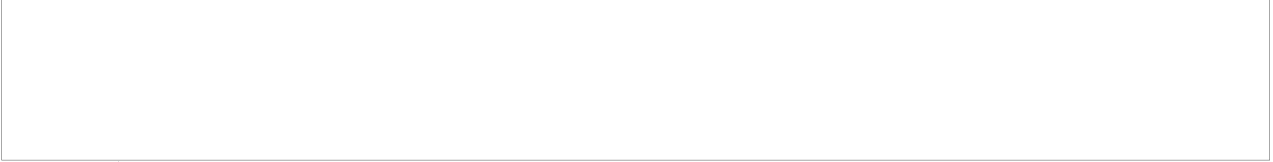


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50X1-HUM

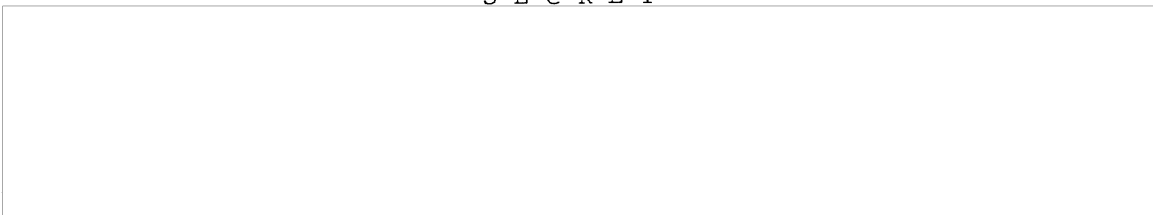


U N I T 21

DISTRIBUTION BOARD

LZh 3.620.201 SxE

S E C R E T



50X1-HUM

50X1-HUM

Ref. No.	GOST Spec. Standard Drawing	Description and type	Refings	Qty	Note
1					
2	OKO 468 004TY	Resistor CN-11-2-47 kilohms-A	4700 ohms	1	
3	110000014003	Rectifier MKB-4-1		4	
4	YKO 468 0048TY	Resistor CN0-2-10 kilohms $\pm 20\%$ -13A	10,000 ohms	1	
9, 47	H13 660 011	Terminal plate		1	
10	OKO 462 026TY	Capacitor K3-500-2 $\times 0.5$ III	2 $\times 0.5$ MF	1	
11	P6 722 220	Diode switch 25a	25A	1	
12	K6 363 219	Clock	127V, 50 c/s	1	
27, 28	GOST 9005-59	Neon lamp TH-03		2	
29, 30	OKO 467 003TY	Resistor MAT-05-150 kilohms II A	150,000 ohms	1	
31, 32	GOST 5010-53	Fuse NK-45-2	2A	2	
38	GOST 5010-53	Fuse NK-45-2	2A	1	
39	GOST 5010-53	Fuse NK-45-5	5A	1	
40	BHMHCC 672-52	Toggle switch T62-1		1	
43	CTV65N04453307	Voltmeter M-4200		1	
13, 14	GOST 9005-59	Neon lamp TH 03		2	
20, 21	OKO 467 003TY	Resistor MAT 05-150 kilohms II A	150,000 ohms	1	
5-6	TY647 8289-53	Fuse NP-60-150	15A, 250V	1	
42	HK3.650 010	Terminal plate		1	
48	BHMHCC 672-52	Toggle switch T61-2		1	
49	OKO 462 014TY	Capacitor MPM 05-100 II	10 MF, 250V	1	

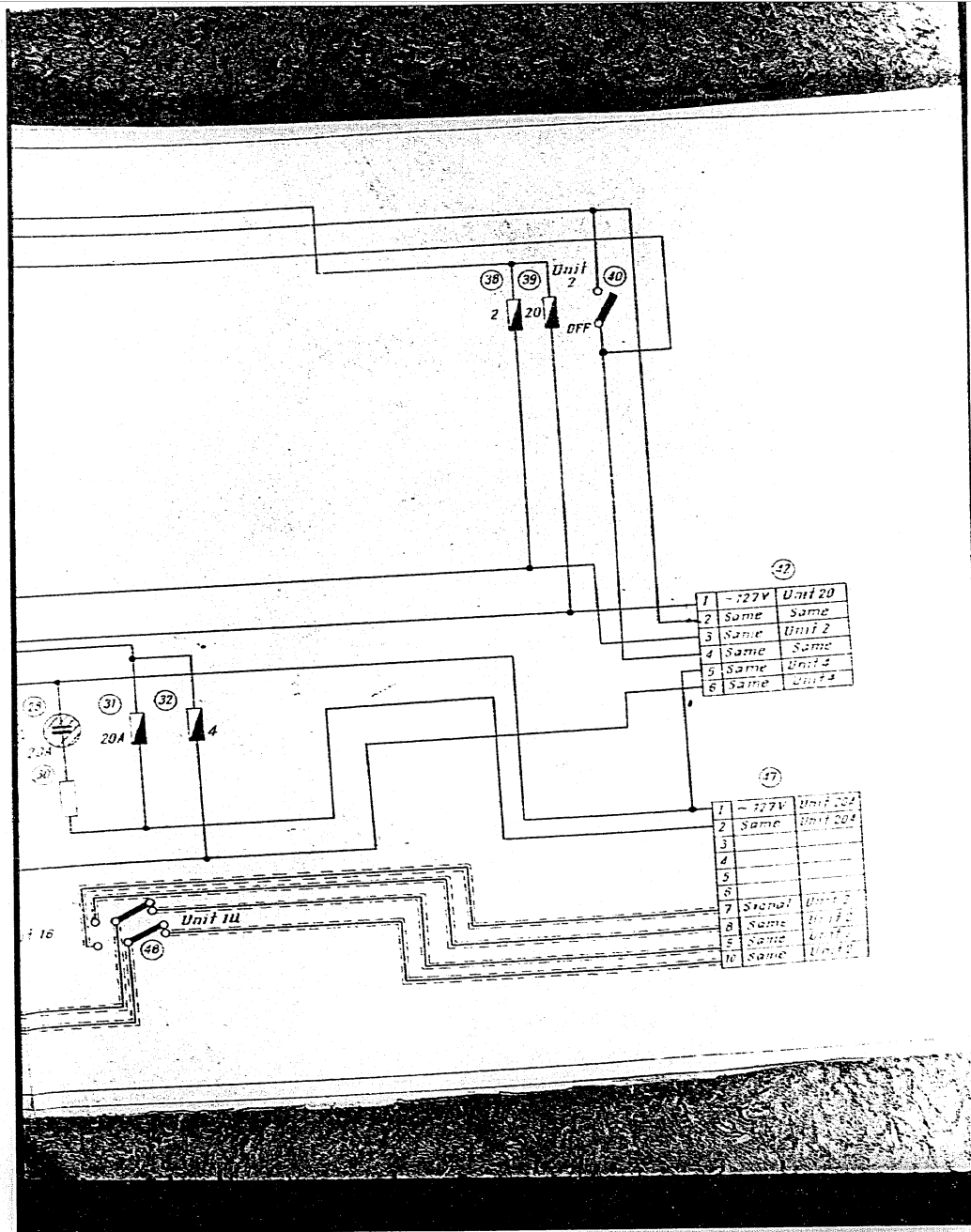
UNIT 21
(Distribution
Board)

A3K3.620 201 G.R.9

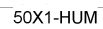
Letter	Small	Large

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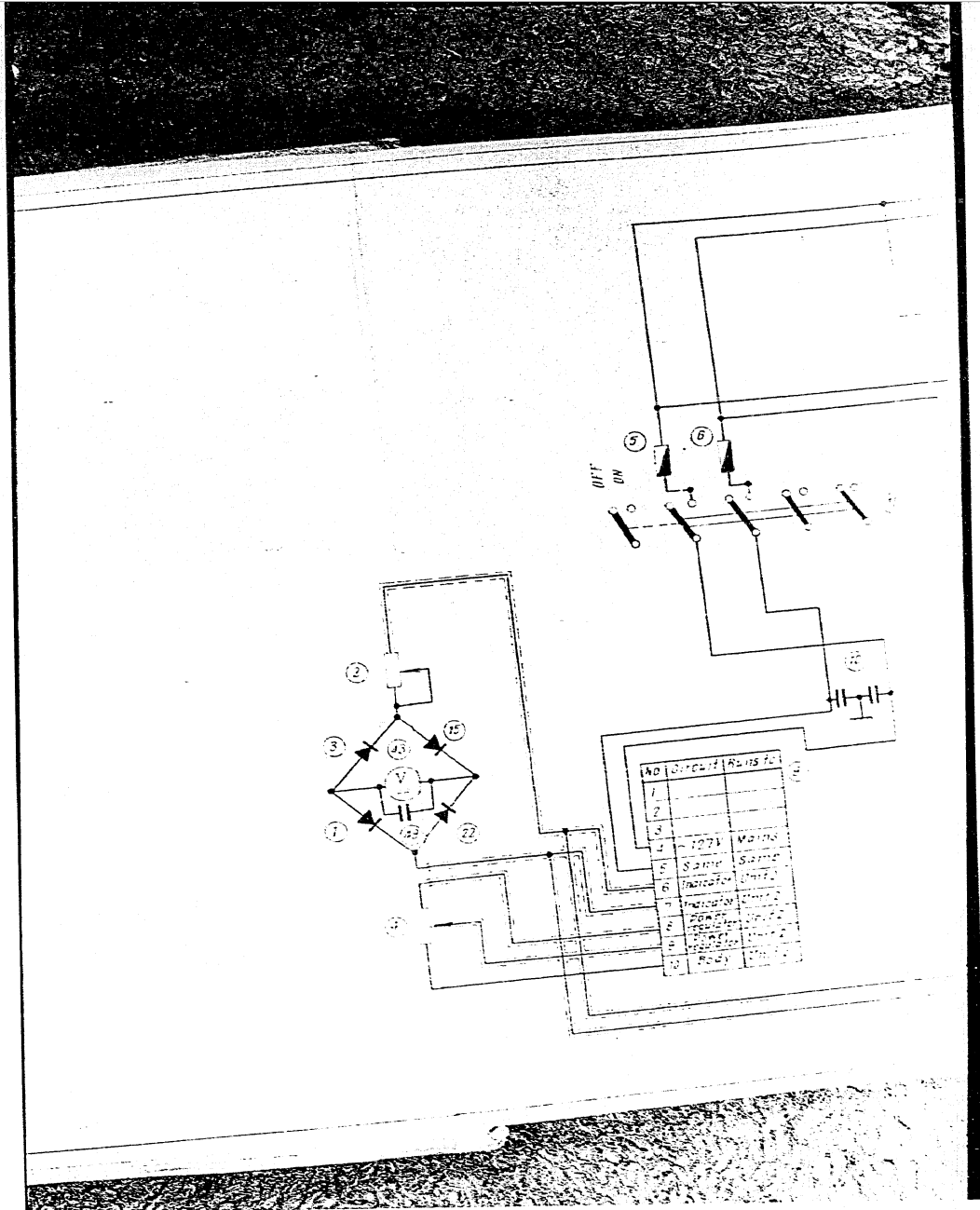
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U N I T 20G

AUTOTRANSFORMER

SCHEMATIC DIAGRAM

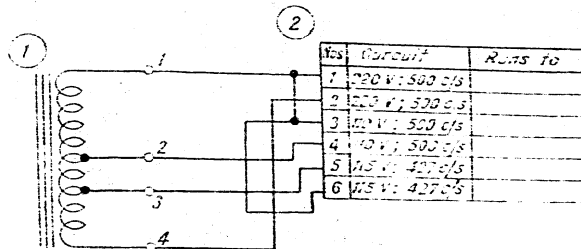
LZh 2.087.004 SxE

S E C R E T



50X1-HUM

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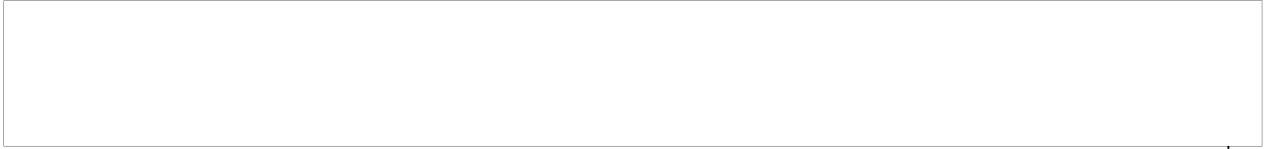


List of elements

Ref. No.	GOST, Spec., Standard, Drawing	Description and type	Rating	Qty.	Note
1	АЖС4.733.001.СН	Autotransformer	1125-40 220 V: 500 c/s	1	
2	НА3.656.001	Terminal plate		1	

UNIT 20Г	АЖС4.087.001.СН
Schematic Diagram	1

50X1-HUM

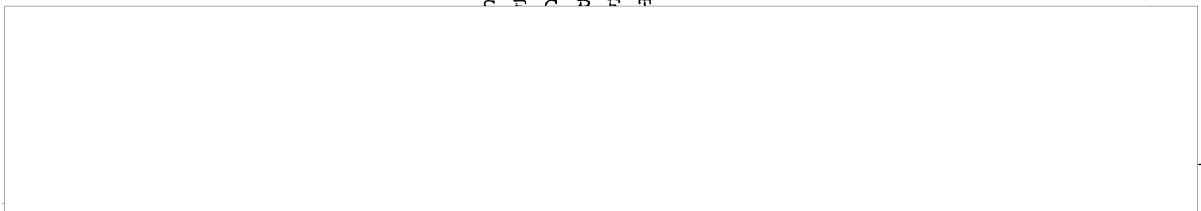


S U B U N I T U S - 1

SCHEMATIC DIAGRAM

LZh 2.732.050 SxE

S E C R E T



50X1-HUM

SUBUNIT YC-1

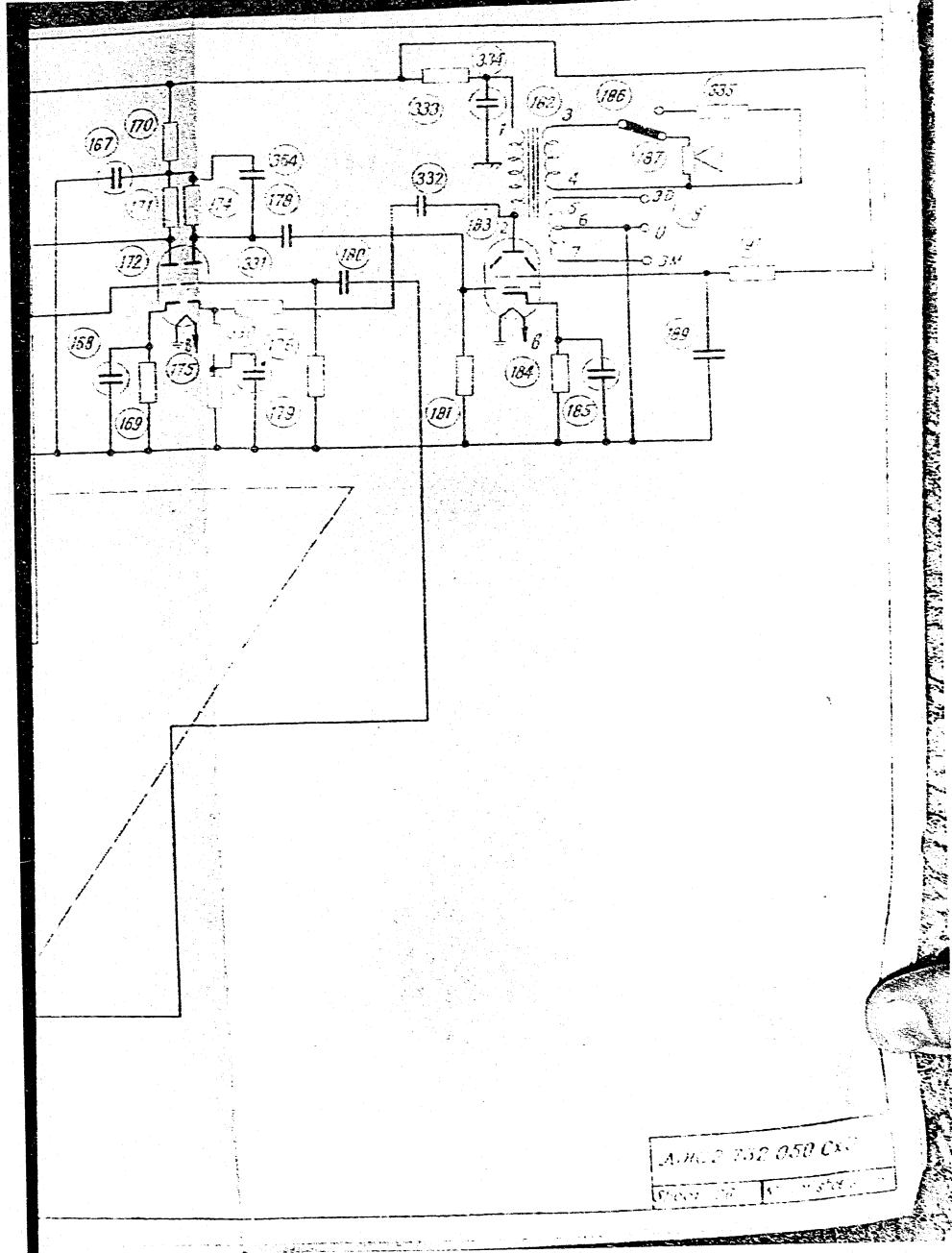
SCHEMATIC

DIAGRAM

ΛX2.732.050C_{x3}

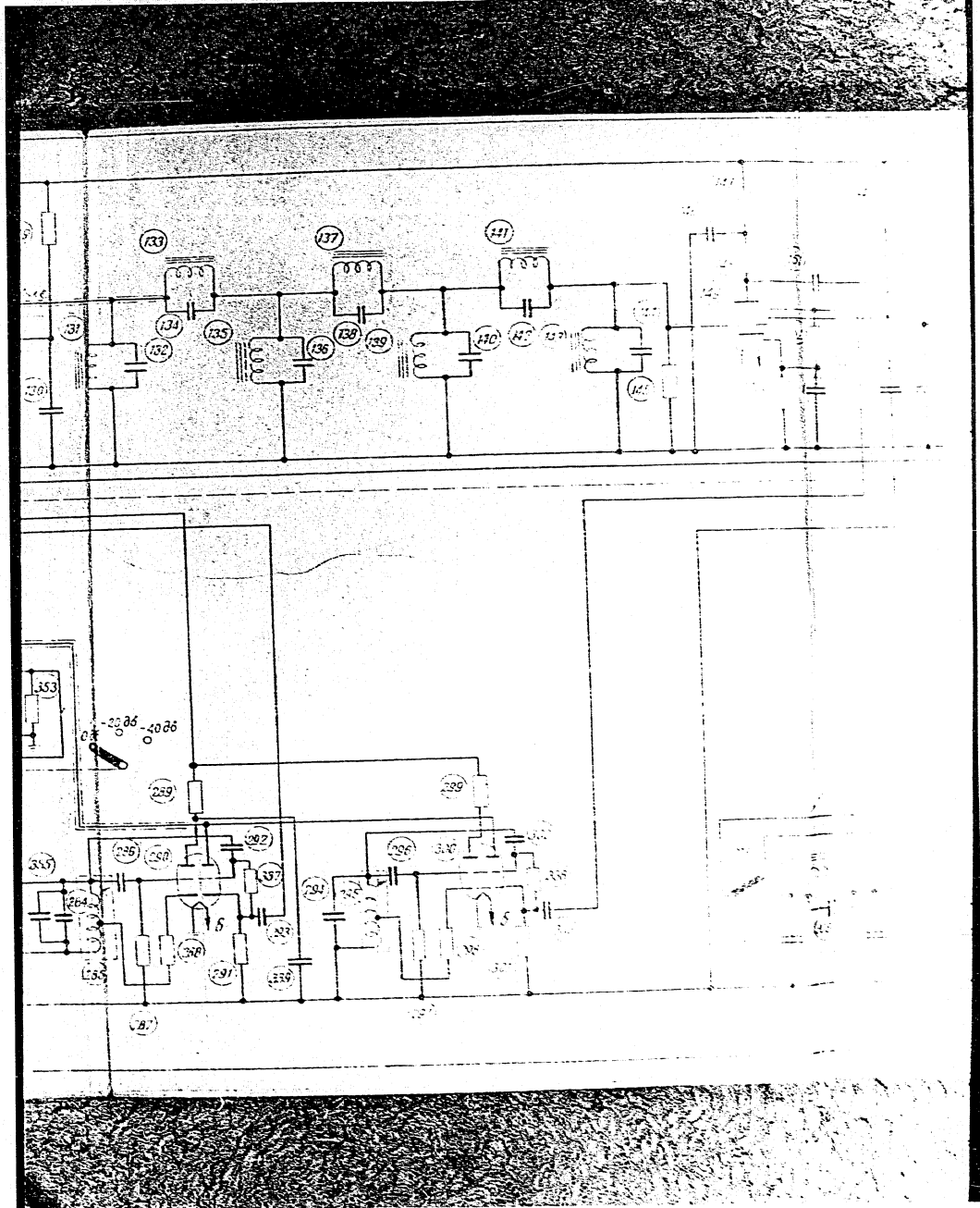
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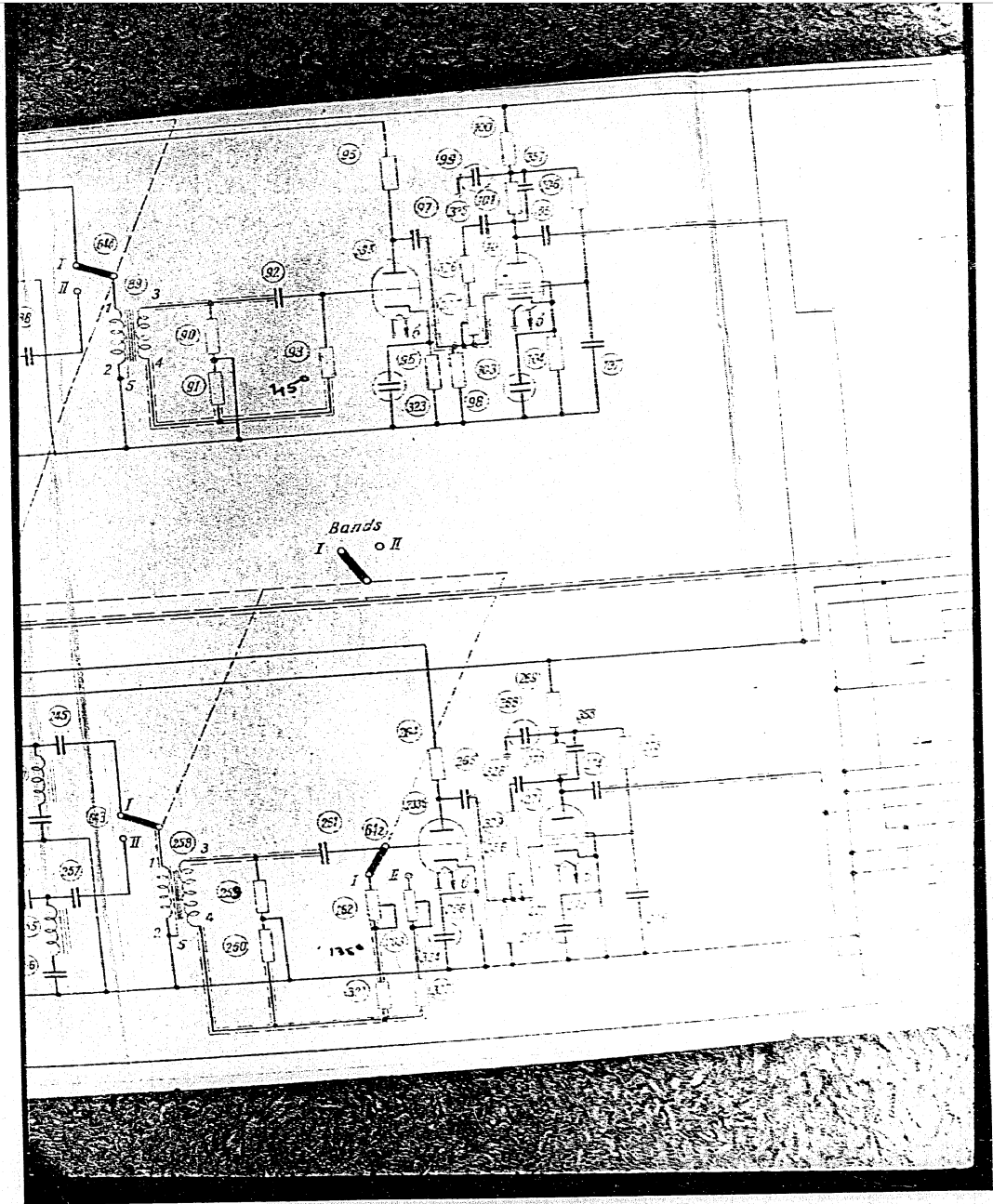
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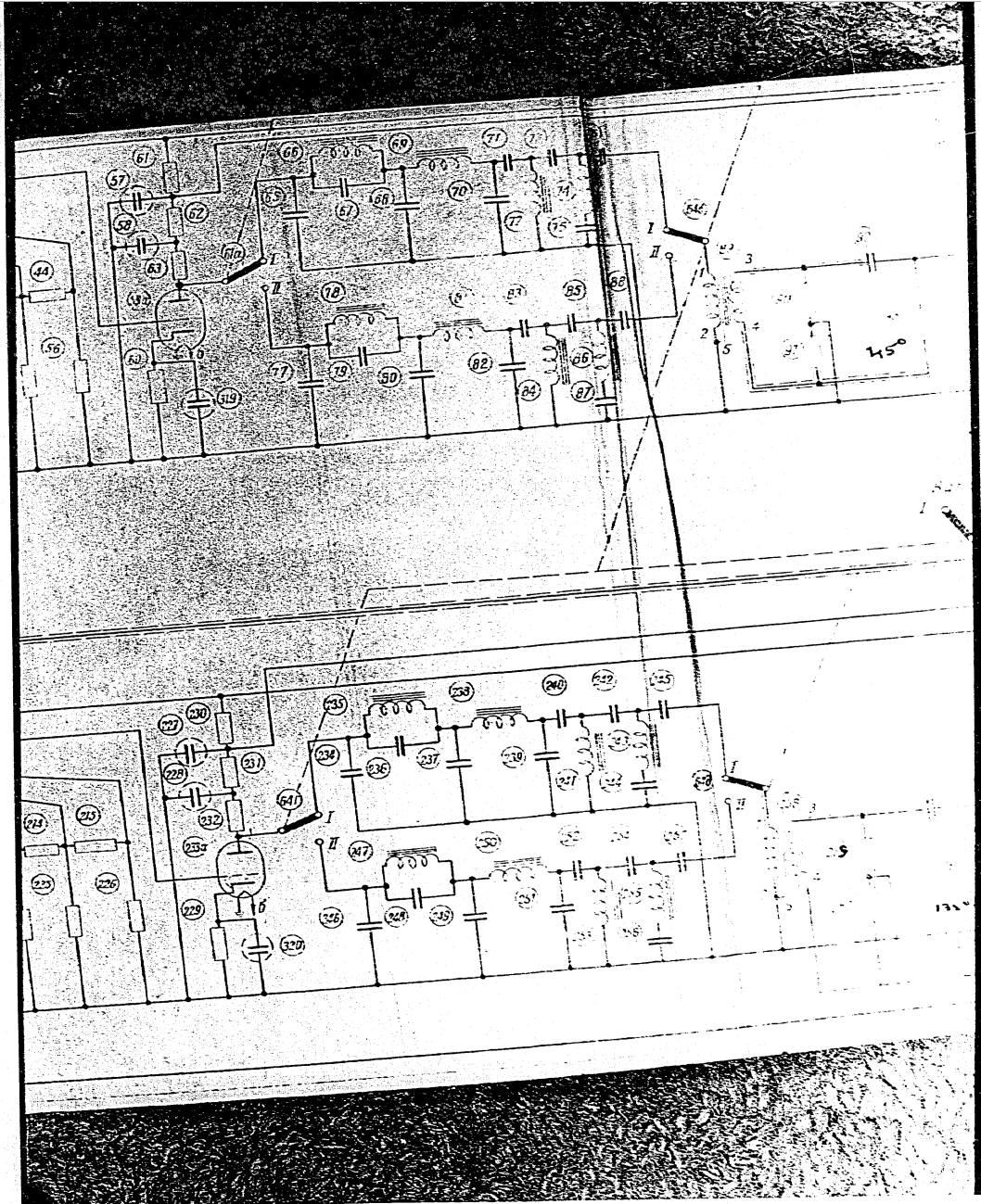
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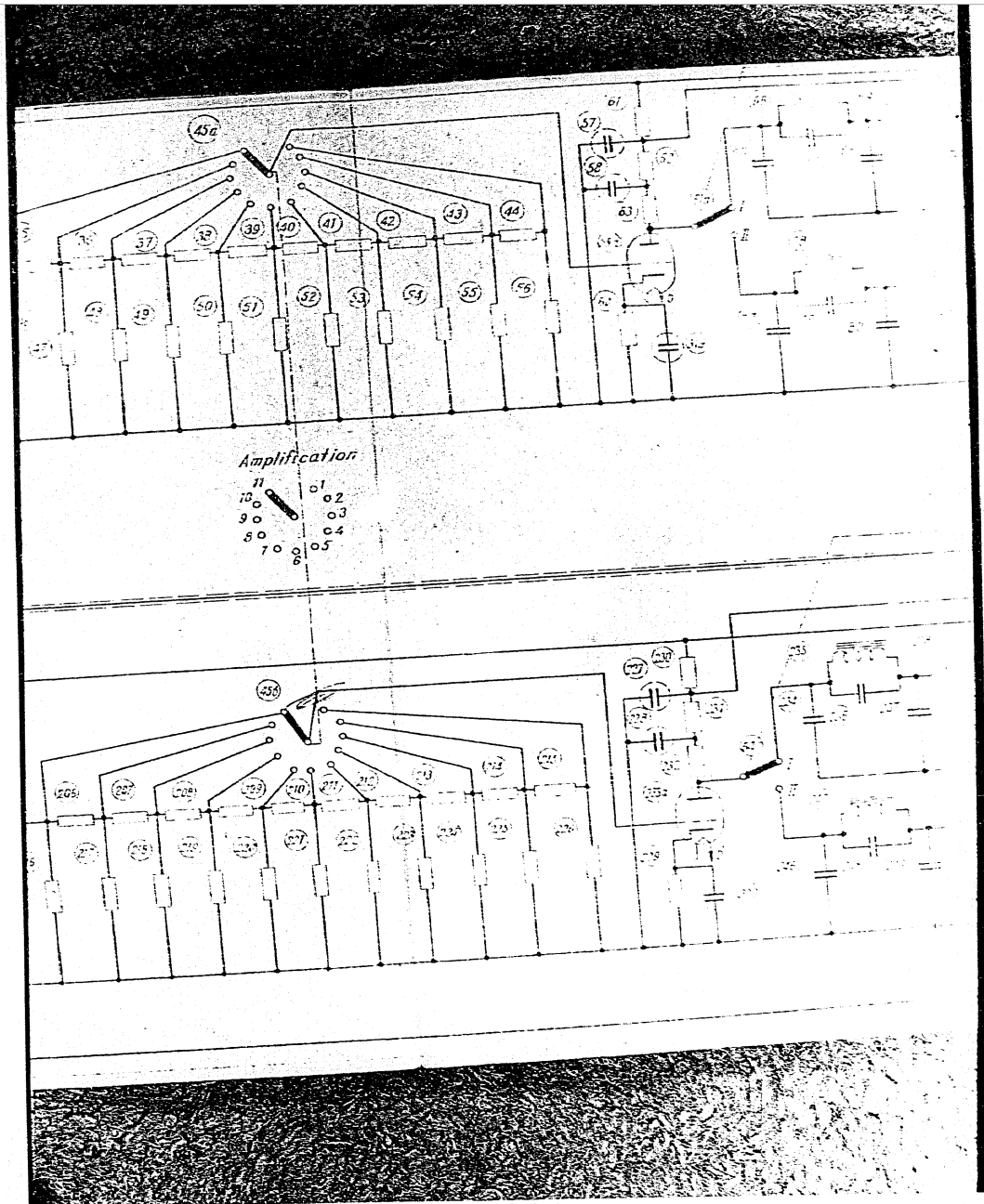
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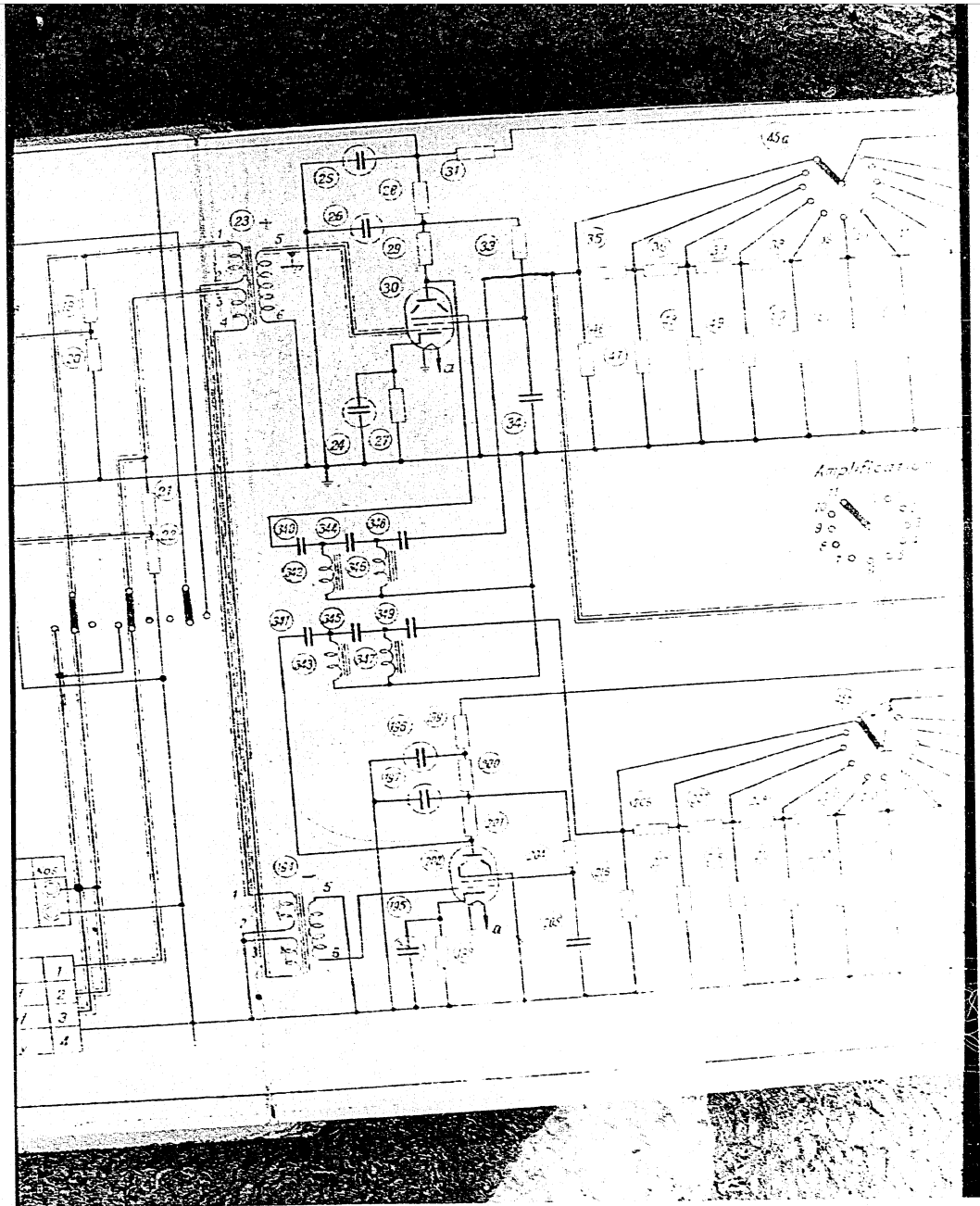
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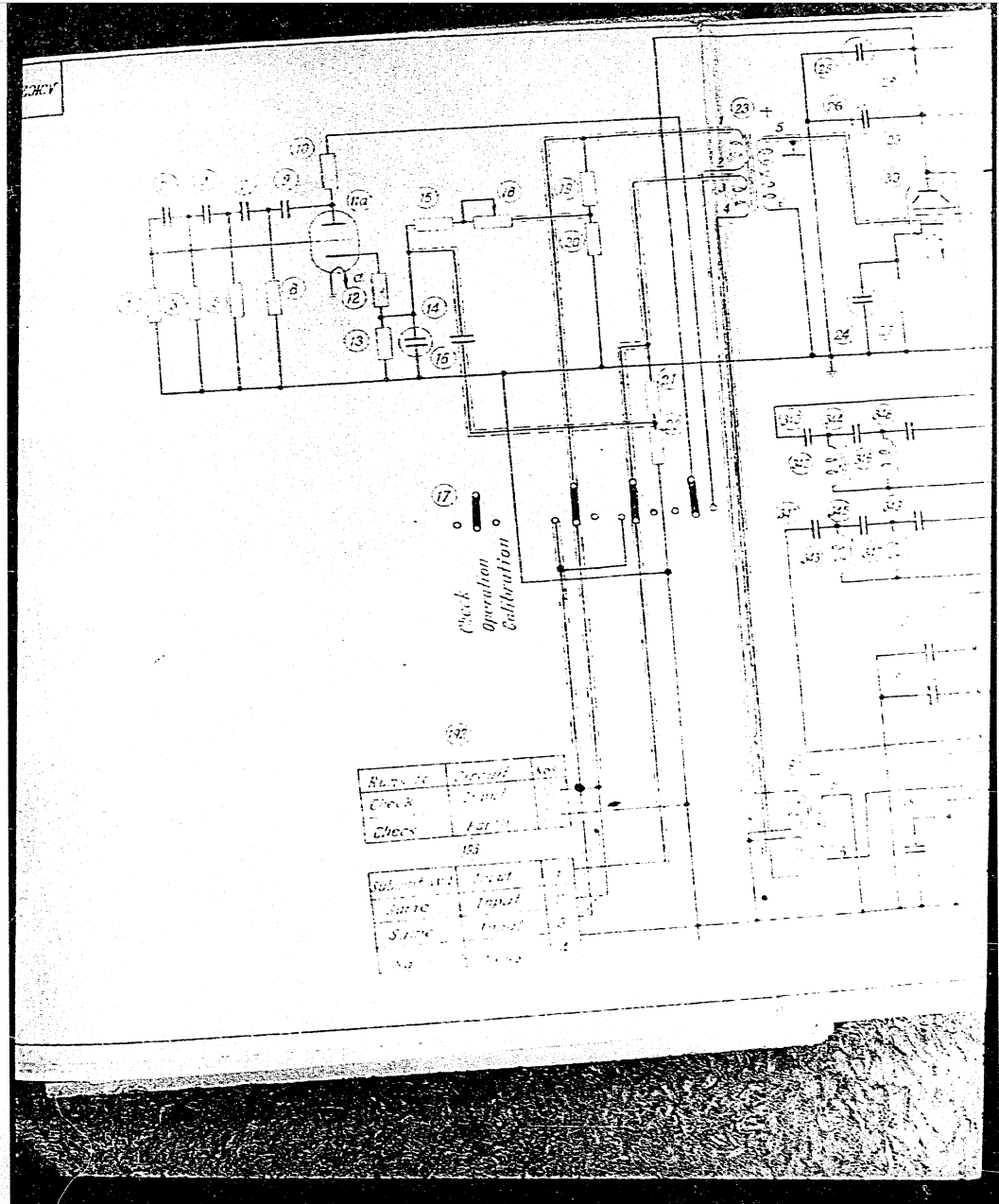
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50X1-HUM

50X1-HUM



50X1-HUM

50X1-HUM

Ref. No.	GOST, Spec., Standard, Drawing	Description	ratings	Qty	Note
LIST OF ELECTRICAL ELEMENTS					
1	OEO.467.003TV	Resistor MHT-0.5-0.11-I-A	110 kilohms	1	
2	OEO.461.003TV	Capacitor CFM-1-250-F-100-I	100 pF	1	
3	OEO.467.003TV	Capacitor MHT-0.5-0.11-I-A	110 kilohms	1	
4	OEO.461.003TV	Capacitor CFM-1-250-F-160-I	160 µF	1	
5	OEO.407.003TV	Resistor MHT-0.5-0.1-I-A	10 kilohms	1	
7	OEO.461.003TV	Capacitor CFM-1-250-F-160-I	160 µF	1	
8	OEO.467.003TV	Resistor MHT-0.5-0.11-II-A	110 kilohms	1	
9	OEO.461.003TV	Capacitor CFM-1-250-F-160-I	160 µF	1	
10	OEO.467.003TV	Resistor MHT-0.5-68 kil- ohms -I-A	68 kilohms	1	
11	4TV01-106-53	Valve 6H2N		1	
12	OEO.467.004TV	Resistor BC-0.25-68-II	68 ohms	1	
13	OEO.467.003TV	Resistor MHT-0.5-1300-II	1300 ohms	1	
14	YEO.464.002TV	Capacitor 3M-30-5-M	5 µF	1	
15	OEO.467.003TV	Resistor MHT-0.5-1000-II-A	1 kilohm	1	
16	OEO.462.021TV	Capacitor K5F-X-600-0.01-I	0.01 µF	1	
17	HO.360.006TV	Switch 5H4H-PS		1	
18	YKO.463.0053TV	Resistor CHO-0.5-4.7 kilohms	4.7 kilohms	1	

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50X1-HUM

50X1-HUM

Ref. No.	GOST, Spec., Standard, Drawing	Description	Ratings	Qty	Note
19	OE0.467.003TV	Resistor MNT-0.5-390-I	390 ohms	1	to be selected up to a value of 410 $\pm$ 1% ohms
20	OE0.467.004TV	Resistor BC-0.25-1-36 ohms-I	36 ohms	1	
21	OE0.467.003TV	Resistor MNT-0.5-390-I	390 ohms	1	to be selected up to a value of 410 $\pm$ 1% ohms
22	OE0.467.004TV	Resistor BC-0.25-1-36 ohms-I	36 ohms	1	
23	NE4.731.003	Transformer	W10x20 I-170 turns W3WEO dia. 0.1 II-170 turns W3WEO dia. 0.1 III-2400 turns W3WEO dia. 0.07	1	
24	YEO.464.002TV	Capacitor 3M-6-20-M	20 μ F	1	
25, 26	OE0.464.001TV	Capacitor 3FM-26- ⁴⁰⁰ 20-M	20 μ F	2	
27	OE0.467.003TV	Resistor MNT-0.5-100-I	100 ohms	1	
28	OE0.467.003TV	Resistor MNT-1-1500-II	1.5 kilohms	1	
29	OE0.467.003TV	Resistor MNT-2-39,000-I-A	39 kilohms	2	to be connected in parallel
30	4TY01-440-55	Valve 6X5R		1	
31	OE0.467.003TV	Resistor MNT-1-1500-II	1.5 kilohms	1	
33	OE0.467.003TV	Resistor MNT-1-51,000-II-A	51 kilohms	1	
34	OE0.462.021TV	Capacitor KEP-K-200-0.1-II	0.1 μ F	1	

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50X1-HUM

50X1-HUM

Ref. No.	GOST, Spec., Standard, Drawing	Description	Ratings	Qty	Note
35-44	OEO.467.003TV	Resistor MNT-0.5-15,000-I-A	15 kilohms	10	
45	HO.360.006TV	Switch 11H4H-P8		1	
46	OEO.467.003	Resistor MNT-0.5-62,000-I-A	62 kilohms	1	
47-55	OEO.467.003	Resistor MNT-0.5-30,000-I-A	30 kilohms	9	
56	OEO.467.003	Resistor MNT-0.5-15,000-I-A	15 kilohms	1	
57,58	OEO.464.001TV	Capacitor 3FM-26- ⁴⁰⁰ / ₂₀ -M	20 μ F	2	
59	4TV01-106-53	Valve 6H2N		1	
60	OEO.467.003TV	Resistor MNT-0.5-470-II	470 ohms	1	
61,62	OEO.467.003TV	Resistor MNT-0.5-20,000-II-A	20 kilohms	2	
63	OEO.467.003TV	Resistor MNT-0.5-33,000-II-A	33 kilohms	1	
64	HO.360.006TV	Switch 3H9H-P8		1	
65	OEO.461.003TV	Capacitor CFM-2-250-P-620-I	620 μ F	1	
66	HE4.754.050	Choke Ring T4-60P-44-0.75 3200 turns H3H20 dia. 0.25	0.468 H	1	
67	OEO.461.003TV	Capacitor CFM-1-250-P-430-I	430 μ F	1	
68	OEO.461.003TV	Capacitor CFM-3-500-P-1500-I	1500 μ F	1	
69	HE4.754.051	Choke Ring T4-60P-44-0.75 4300 turns H3H20 dia. 0.2	0.65 H	1	
70	OEO.461.003TV	Capacitor CFM-2-250-P-1100-I	1100 μ F	1	
71	OEO.461.003TV	Capacitor CFM-3-500-P-3300-I	3300 μ F	1	
72	HE4.754.052	Choke Ring T4-60P-44-0.75 3720 turns H3H20 dia. 0.25	0.635 H	1	

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50X1-HUM

50X1-HUM

Ref. No.	GOST, Spec., Standard, Drawing	Description	Ratings	Qty	Note
73	ОХО.461.003TV	Capacitor СГМ-3-1000-Г-1800-И	1800 μ F	1	
74	ЛХ4.754.053	Choke	1.06 H Ring Т4-60P-44-0.75 4790 turns ПЗЛМО dia. 0.2	1	
75	ОХО.461.003TV	Capacitor СГМ-4-500-Г-5100-И	5100 μ F	1	
76	ОХО.461.003TV	Capacitor СГМ-4-1000-Г-6800-И	6800 μ F	1	
77	ОХО.461.003TV	Capacitor СГМ-1-250-Г-360-И	360 μ F	1	
78	ЛХ4.754.054	Choke	0.281 H Ring Т4-60P-44-0.75 2470 turns ПЗЛМО dia. 0.31	1	
79	ОХО.461.003TV	Capacitor СГМ-1-250-Г-240-И	240 μ F	1	
80	ОХО.461.003TV	Capacitor СГМ-2-250-Г-750-И	750 μ F	1	
81	ЛХ4.754.055	Choke	0.51 H Ring Т4-60P-44-0.75 3330 turns ПЗЛМО dia. 0.25	1	
82	ОХО.461.003TV	Capacitor СГМ-2-250-Г-620-И	620 μ F	1	
83	ОХО.461.003TV	Capacitor СГМ-3-500-Г-1500-И	1500 μ F	1	
84	ЛХ4.754.056	Choke	0.29 H Ring Т4-60P-44-0.75 2600 turns ПЗЛМО dia. 0.25	1	
85	ОХО.461.003TV	Capacitor СГМ-2-250-Г-750-И	750 μ F	1	

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Ref. No.	GOST, Spec., Standard, Drawing	Description	Ratings	Qty	Note
86	ЛХ4.754.057	Choke	0.485 H Ring T4-60P-44-0.75 3245 turns ПЗЛНО dia. 0.25	1	
87	ОХ0.461.003TV	Capacitor СГМ-3-500-Г-2700-I	2700 μ F	1	
88	ОХ0.461.003TV	Capacitor СГМ-3-500-Г-2400-I	2400 μ F	1	
89	ЛХ4.735.003	Transformer	112x12 I-1000 turns ПЗЛНО dia. 0.12 II-1000 turns ПЗЛНО dia. 0.12	1	
90	ОХ0.467.003TV	Capacitor МЛТ-0.5-10,000-I-A	10 kilohms	2	
91	ОХ0.460.014TV	Capacitor КТК-1а-Д-91-1	91 μ F	1	
93	ОХ0.467.003TV	Resistor МЛТ-0.5-0.12-I-A	120 kilohms	1	
95	ОХ0.467.003TV	Resistor МЛТ-0.5-20,000-II-A	20 kilohms	1	
96	ОХ0.467.003TV	Resistor МЛТ-0.5-470-II	470 ohms	1	
97	ОХ0.462.021TV	Capacitor КБГ-М-600-0.01-II	0.01 μ F	1	
98	ОХ0.467.003TV	Resistor МЛТ-0.5-0.51-II-A	510 kilohms	1	
99	ОХ0.464.001TV	Capacitor ЭГЦ-26- $\frac{400}{20}$ -М	20 μ F	1	
100	ОХ0.467.003TV	Resistor МЛТ-1-1000-I	1 kilohm	1	
101	ОХ0.467.003TV	Resistor МЛТ-2-30,000-I-A	30 kilohms	2	to be connected in parallel
102	TV01-103-53	Valve 6X1П		1	
103	УБ0.464.002TV	Capacitor 3М-6-20-М	20 μ F	1	
104	ОХ0.467.003TV	Resistor МЛТ-0.5-100-I	100 ohms	1	

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50X1-HUM

Ref. No.	GOST, Spec., Standard, Drawing	Description	Ratings	Qty	Note
105	OXO.462.021TV	Capacitor KBF-M-600-0.01-II	0.01 μ F	1	
106	OXO.467.003TV	Resistor MNT-1-51,000-I-A	51 kilohms	1	
107	GOST 9687-61	Capacitor EMT-2-400-0.1+5%	0.1 μ F	1	
114	YKO.468.004BTY	Resistor CH0-2-1-470 kil- ohms-10%-131	470 kilohms	1	
115	OXO.467.003TV	Resistor MNT-2-62,000-II-A	62 kilohms	1	
116	OXO.467.003TV	Resistor MNT-0.5-2000-II	2 kilohms	1	
117	OXO.464.001TV	Capacitor 3FH-26- $\frac{400}{20}$ -M	20 μ F	1	
118	OXO.462.021TV	Capacitor KBF-M-200-0.07-III	0.07 μ F	1	
119	GOST 9687-61	Capacitor EMT-2-400-0.1-I	0.1 μ F	1	
120	HO.360.006TV	Switch 3П6Н-П8		1	
121	OXO.467.003TV	Resistor MNT-0.5-0.51-II-A	510 kilohms	1	
122	OXO.467.003TV	Resistor MNT-0.5-39,000-II-A	39 kilohms	1	
123	OXO.467.003TV	Resistor MNT-0.5-10,000-I-A	10 kilohms	1	
124	ЧТФ01-104-55	Valve 6Э2Н		1	
125	OXO.467.003TV	Resistor MNT-0.5-220-II	220 ohms	1	
126	OXO.461.003TV	Capacitor CFM-4-500-Г-5100-I	5100 μ F	1	
127	OXO.467.003TV	Resistor MNT-0.5-0.51-II-A	510 kilohms	1	
128	YEO.464.002TV	Capacitor 3M-10-10-M	10 μ F	1	
129	OXO.467.003TV	Resistor MNT-1-120 kil- ohms-II-A	120 kilohms	1	
130	OXO.462.021TV	Capacitor KBF-M-200-0.1-II	0.1 μ F	1	

50X1-HUM

50X1-HUM

Ref. No.	GOST, Spec., Standard, Drawing	Description	Ratings	Qty	Note
131	ЛЭ4.754.065	Choke	1.3 mH Ring B4K-22P D-24; h=7 230 turns ПЗЛЭО dia. 0.31	1	
132	ОЭ0.461.003TV	Capacitor СГМ-3-500-Г-3000-II	3000 μ F	1	
133	ЛЭ4.754.066	Choke	3 mH Ring B4K-22P D-24; h = 7 350 turns ПЗЛЭО dia. 0.31	1	
134	ОЭ0.461.003TV	Capacitor СГМ-2-250-Г-1000-I	1000 μ F	1	
135	ЛЭ4.754.067	Choke	0.6 mH Ring B4K-22P D-24; h = 7 160 turns ПЗЛЭО dia. 0.31	1	
136	ОЭ0.461.003TV	Capacitor СГМ-4-1000-Г-6800-I	6800 μ F	1	
137	ЛЭ4.754.068	Choke	4.5 mH Ring B4K-22P D-24; h = 7 ПЗЛЭО dia. 0.25 440 turns	1	
138	ОЭ0.461.003TV	Capacitor СГМ-1-250-Г-470-I	470 μ F	1	
139	ЛЭ4.754.069	Choke	0.55 mH Ring B4K-22P D-24; h = 7 155 turns ПЗЛЭО dia. 0.25	1	

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Ref. No.	GOST, Spec., Standard, Drawing	Description	Ratings	Qty	Note
140	OKO.461.003TV	Capacitor СГМ-4-1000-Г-6300-I	6800 μ F	1	
141	ЛЛ4.754.070	Choke	6 mH Ring B4K-22P 500 turns ПЗЛМО dia. 0.2 h = 7; D = 24 270 μ F	1	
142	OKO.461.003TV	Capacitor СГМ-1-250-Г-270-I	270 μ F	1	
143	ЛЛ4.754.071	Choke	1.1 mH Ring B4K-22P D = 24; h = 7 ПЗЛМО dia. 0.31 220 turns 3600 μ F	1	
144	OKO.461.003TV	Capacitor СГМ-3-500-Г-3600-II	3600 μ F	1	
145	OKO.467.003TV	Resistor МЛТ-0.5-10,000-I-A	10 kilohms	1	
146	OKO.464.001TV	Capacitor ЗГЦ-26- $\frac{400}{20}$ -M	20 μ F	1	
147	OKO.467.003TV	Resistor МЛТ-0.5-39,000-II-A	39 kilohms	1	
148	OKO.467.003TV	Resistor МЛТ-0.5-10 kil- ohms-II-A	10 kilohms	1	
149	ЧТЧ01-104-55	Valve 6X2H		1	
150	OKO.467.003TV	Resistor МЛТ-0.5-220-II	220 ohms	1	
151	OKO.462.021TV	Capacitor КБГ-М-400-0.05-II	0.05 μ F	1	
152	OKO.467.003TV	Resistor МЛТ-0.5-0.51-II-A	510 kilohms	1	
153	УБ0.464.002TV	Capacitor ЗМ-6-20-M	20 μ F	1	
154	OKO.467.003TV	Resistor МЛТ-0.5-0.12-II-A	120 kilohms	1	

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50X1-HUM

Ref. No.	GOST, Spec., Standard, Drawing	Description	Ratings	Qty	Note
155	OEO.462.021TV	Capacitor KSP-M-200-0.1-II	0.1 μ F	1	
156	OEO.461.003TV	Capacitor CFM-3-500-Г-3300-I	3300 μ F	1	
157	ЛХ4.754.063	Choke	0.71 H Ring T4-60P-44-0.75 3930 turns ПЗЛЕО dia. 0.15 5100 μ F	1	
158	OEO.461.003TV	Capacitor CFM-4-500-Г-5100-I	5100 μ F	1	
159	ЛХ4.754.105	Choke	0.568 H Ring T4-60P-44-0.75 3520 turns ПЗЛЕО dia. 0.20 750 μ F	1	
160	OEO.461.003TV	Capacitor CFM-2-250-Г-750-I	750 μ F	1	
161	OEO.461.003TV	Capacitor CFM-4-1000-Г-3600-I	3600 μ F	1	
162	ЛХ4.754.064	Choke	0.215 H Ring T4-60P-44-0.75 2150 turns ПЗЛЕО dia. 0.15 3600 μ F	1	
163	OEO.461.003TV	Capacitor CFM-3-500-Г-3600-I	3600 μ F	1	
164,	OEO.467.003TV	Resistor	5.1 kilohms	2	
165	OEO.467.003TV	MLT-0.5-5100-I			
166	OEO.467.003TV	Resistor	510 kilohms	1	
167	OEO.464.001TV	MLT-0.5-0.51-II-A Capacitor ЗГН-26- ⁴⁰⁰ / ₂₀ -M	20 μ F	1	
168	OEO.464.015TV	Capacitor ЗМ-15-25-M	25 μ F	1	
169	OEO.467.003TV	Resistor	470 ohms	1	
170	OEO.467.003TV	MLT-0.5-470-II Resistor MLT-1-9100-II	9.1 kilohms	1	

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50X1-HUM

Ref. No.	GOST, Spec., Standard, Drawing	Description	Ratings	Qty	Note
171	OXO.467.003TV	Resistor МЛТ-0.5-5100-II	5.1 kilohms	1	
172	ЧТVO1-106-53	Valve 6H2H		1	
174	OXO.467.003TV	Resistor МЛТ-0.5-39,000-I-A	39 kilohms	1	
175	OXO.467.003TV	Resistor МЛТ-0.5-360-II	360 ohms	1	
176	УБO.464.002TV	Capacitor ЗМ-6-20-M	20 μ F	1	
178	OXO.462.021TV	Capacitor КБГ-М-600-0.01-II	0.01 μ F	1	
179	OXO.467.003TV	Resistor МЛТ-0.5-0.51-II-A	510 kilohms	1	
180	OXO.462.021TV	Capacitor КБГ-М-400-0.05-II	0.05 μ F	1	
181	OXO.467.003TV	Resistor МЛТ-0.5-0.51-II-A	510 kilohms	1	
182	ЛХ4.731.002	Transformer	16x32 I-1800 turns ПЭЛH0 dia. 0.12 II-45 turns ПЭЛH0 dia. 0.59 III-108 turns ПЭЛH0 dia. 0.12 with tap from turn 18	1	
183	ЧТVO1-107-53	Valve 6H1H		1	
184	OXO.467.003TV	Resistor МЛТ-1-470-II	470 ohms	1	
185	УБO.464.002TV	Capacitor ЗМ-15-10-M	10 μ F	1	
186	БЕМHCC 672-52	Toggle switch TB2-1		1	
187	HMO.384.003	Loudspeaker 1ГH5		1	
188	ПH3.844.02OTV	Earphones TA-56M		1	
189	OXO.462.021	Capacitor КБГ-М-400-0.05-II	0.05 μ F	1	
191	OXO.467.003TV	Resistor МЛТ-0.5-51,000-II-A	51 kilohms	1	
192	18.527.001	Jack		2	

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Ref. No.	GOST, Spec., Standard, Drawing	Description	Ratings	Qty	Note
193	HL3.656.000Cn	Terminal plate		1	
194	HL4.731.003	Transformer	110x20 I-170 turns ПЗЛНО dia. 0.1 II-170 turns ПЗЛНО dia. 0.1 III-2400 turns ПЗЛНО dia. 0.07	1	
195	YEO.464.002TV	Capacitor 3M-6-20-M	20 μ F	1	
196	OXO.464.001TV	Capacitor	20 μ F	2	
197		3ГП-25- $\frac{400}{20}$ -M			
198	OXO.467.003TV	Resistor MHT-0.5-100-I	100 ohms	1	
199	OXO.467.003TV	Resistor MHT-1-1500-II	1.5 kilohms	2	
200					
201	OXO.467.003TV	Resistor MHT-2-39,000-I-A	39 kilohms	2	to be connected in parallel
202	ЧТГО1-440-55	Valve 6X5П		1	
204	OXO.467.003TV	Resistor MHT-1-51,000-II-A	51 kilohms	1	
205	OXO.462.021TV	Capacitor КБГ-М-200-0.1-II	0.1 μ F	1	
206	OXO.467.003TV	Resistor MHT-0.5-15,000-I-A	15 kilohms	10	
215					
216	OXO.467.003TV	Resistor MHT-0.5-62,000-I-A	62 kilohms	1	
217	OXO.467.003TV	Resistor MHT-0.5-30,000-I-A	30 kilohms	9	
225					
226	OXO.467.003TV	Resistor MHT-0.5-15,000-I-A	15 kilohms	1	
227	OXO.464.001TV	Capacitor	20 μ F	2	
228		3ГП-25- $\frac{400}{20}$ -M			
229	OXO.467.003TV	Resistor MHT-0.5-470-II	470 ohms	1	
230	OXO.467.003TV	Resistor MHT-1-20,000-II-A	20 kilohms	2	
231					

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Ref. No.	GOST, Spec., Standard, Drawing	Description	Ratings	Qty	Note
232	ОХО.467.003ТВ	Resistor МНТ-0.5-33,000-II-A	33 kilohms	1	
233	УТФ01-106-53	Valve 6H2П		1	
234	ОХО.461.003ТВ	Capacitor СГМ-2-250-Г-620-I	620 μ F	1	
235	ЛХ4.754.050	Choke	0.468 H Ring ТЧ-60P-44-0.75 3200 turns ПЗЛМО dia. 0.25	1	
236	ОХО.461.003ТВ	Capacitor СГМ-1-250-Г-430-I	430 μ F	1	
237	ОХО.461.003ТВ	Capacitor СГМ-3-500-Г-1500-I	1500 μ F	1	
238	ЛХ4.754.051	Choke	0.85 H Ring ТЧ-60P-44-0.75 4300 turns ПЗЛМО dia. 0.2	1	
239	ОХО.461.003ТВ	Capacitor СГМ-2-250-Г-1100-I	1100 μ F	1	
240	ОХО.461.003ТВ	Capacitor СГМ-3-500-Г-3300-I	3300 μ F	1	
241	ЛХ4.754.052	Choke	0.635 H Ring ТЧ-60P-44-0.75 3720 turns ПЗЛМО dia. 0.25	1	
242	ОХО.461.003ТВ	Capacitor СГМ-3-500-Г-2000-I	2000 μ F	1	
243	ЛХ4.754.053	Choke	1.05 H Ring ТЧ-60P-44-0.75 4790 turns ПЗЛМО dia. 0.2	1	
244	ОХО.461.003ТВ	Capacitor СГМ-4-500-Г-5100-I	5100 μ F	1	

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Ref. No.	GOST, Spec., Standard, Drawing	Description	Ratings	Qty	Note
245	ОЭО.461.003TV	Capacitor CFM-4-1000-Г-6800-I	6800 μ F	1	
246	ОЭО.461.003TV	Capacitor CFM-1-250-Г-360-I	360 μ F	1	
247	ЛЭ4.754.054	Choke	0.281 H Ring T4-60P-44-0.75 2470 turns ПЗЛЕО dia. 0.31	1	
248	ОЭО.461.003TV	Capacitor CFM-1-250-Г-240-I	240 μ F	1	
249	ОЭО.461.003TV	Capacitor CFM-2-250-Г-750-I	750 μ F	1	
250	ЛЭ4.754.055	Choke	0.51 H Ring T4-60P-44-0.75 3330 turns ПЗЛЕО dia. 0.26	1	
251	ОЭО.461.003TV	Capacitor CFM-2-250-Г-620-I	620 μ F	1	
252	ОЭО.461.003TV	Capacitor CFM-3-500-Г-1500-I	1500 μ F	1	
253	ЛЭ4.754.056	Choke	0.29 H Ring T4-60P-44-0.75 2600 turns ПЗЛЕО dia. 0.25	1	
254	ОЭО.461.003TV	Capacitor CFM-2-250-Г-750-I	750 μ F	1	
255	ЛЭ4.754.057	Choke	0.485 H Ring T4-60P-44-0.75 3245 turns ПЗЛЕО dia. 0.25	1	
256	ОЭО.461.003TV	Capacitor CFM-3-500-Г-2700-I	2700 μ F	1	
257	ОЭО.461.003TV	Capacitor CFM-3-500-Г-2400-I	2400 μ F	1	

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Ref. No.	GOST, Spec., Standard, Drawing	Description	Settings	Qty	Note
258	ЛЭ4.735.003	Transformer	112x12 I-1000 turns НС210 dia. 0.12 II-1000 turns НС210 dia. 0.12		
259,	ОХ0.467.003TV	Resistor	10 kilohms	2	
260		МЛТ-0.5-10,000-I-A			
261	ОХ0.461.003TV	Capacitor	910 pF	1	
262,	УК0.468.004BTY	Resistor	100 kilohms	2	
263		СП0-2-100 kilohms, 13W			
264	ОХ0.467.003TV	Resistor	20 kilohms	1	
		МЛТ-0.5-20,000-II-A			
265	ОХ0.462.021TV	Capacitor	0.01 pF	1	
		КСР-М-600-0.01-II			
266	ОХ0.467.003TV	Resistor	470 kilohms	1	
		МЛТ-0.5-470-II			
267	ОХ0.467.003TV	Resistor	510 kilohms	1	
		МЛТ-0.5-0.51-II-A			
268	ОХ0.464.001TV	Capacitor	20 pF	1	
		ЭГН-2Б- $\frac{400}{20}$ -M			
269	ОХ0.467.003TV	Resistor	1 kilohm	1	
		МЛТ-1-1000-I			
270	ОХ0.467.003TV	Resistor	30 kilohms	2	to be con- nected in parallel
		МЛТ-2-30,000-II-A			
271	ЧТУ01-103-53	Valve 6Э1П		1	
272	УБ0.464.002TV	Capacitor	20 pF	1	
		ЭМ-6-20-M			
273	ОХ0.467.003TV	Resistor	100 ohms	1	
		МЛТ-0.5-100-I			
274	ОХ0.462.021TV	Capacitor	0.01 pF	1	
		КСР-М-600-0.01-II			
275	ОХ0.467.003TV	Resistor	51 kilohms	1	
		МЛТ-1-51,000-I-A			
276	GOST 9687-61	Capacitor	0.1 pF	1	
		ЭНТ-2-400-0.1±5%			

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Ref. No.	GOST, Spec., Standard, Drawing	Description	Ratings	Qty	Note
280	HT3.656.000Cn	Terminal plate		1	
281	HT3.656.002Cn	Terminal plate		1	
282	IS.527.001	Jack		3	
283	HO30.465.000TV	Variable capacitor	12-495 μ F	1	
284	OXO.461.003TV	Capacitor	680 μ F	1	
285	HE5.777.002	CFM-2-250-Г-330-I Autotransformer	1 mH h = 420 turns with tap from turn 390 H3HEO dia. 0.15 Winding UNIVERSAL	1	
286	OXO.461.003TV	Capacitor CFM-1-250-Г-390-II	390 μ F	1	
287	OXO.467.003TV	Resistor MHT-0.5-0.15-II-A	150 kilohms	1	
288	OXO.467.003TV	Resistor MHT-0.5-240-I	240 ohms	1	
289	OXO.467.003TV	Resistor MHT-1-24,000-II-A	24 kilohms	1	
290	4TV01-106-53	Valve 6H2П		1	
291	OXO.467.003TV	Resistor MHT-0.5-5100-II	5100 ohms	1	
292	OXO.461.003TV	Capacitor CFM-1-250-Г-390-I	390 μ F	1	
293	OXO.461.003TV	Capacitor CFM-1-250-Г-390-I	390 μ F	1	
294	OXO.461.003TV	Capacitor CFM-3-500-Г-1300-I	1300 μ F	1	to be connected in parallel
	OXO.461.003TV	Capacitor CFM-1-250-Г-100-I	100 μ F	1	
295	HE5.777.002	Autotransformer	1 mH h = 420 turns with tap from turn 390 H3HEO dia. 0.15 Winding UNIVERSAL	1	
296	OXO.461.003TV	Capacitor CFM-1-250-Г-390-I	390 μ F	1	

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Ref. No.	GOST, Spec., Standard, Drawing	Description	Ratings	Qty	Note
297	ОХО.467.003TV	Resistor МНТ-0.5-0.15-II-A	150 kilohms	1	
298	ОХО.467.003TV	Resistor МНТ-0.5-240-I	240 ohms	1	
299	ОХО.467.003TV	Resistor МНТ-2-24,000-II-A	24 kilohms	1	
300	ЧТЧ01-106-53	Valve 6H2L		1	
301	ОХО.467.003TV	Resistor МНТ-0.5-5100-I	5100 ohms	1	
302	ОХО.461.003TV	Capacitor СГМ-1-250-Г-390-I	390 μ F	1	
303	ОХО.461.003TV	Capacitor СГМ-1-250-Г-390-I	390 μ F	1	
304	ОХО.461.003TV	Capacitor СГМ-3-500-Г-3900-I	3900 μ F	1	
305	ЛХ4.754.058	Choke	0.255 H Ring ТЧ-60P-44-0.75 2360 turns H3NEO dia. 0.25	1	
306	ОХО.461.003TV	Capacitor СГМ-3-500-Г-1500-I	1500 μ F	1	
307	ОХО.461.003TV	Capacitor СГМ-4-250-Г-7500-I	7500 μ F	1	
308	ЛХ4.754.059	Choke	0.318 H Ring ТЧ-60P-44-0.75 2620 turns H3NEO dia. 0.25	1	
309	ОХО.461.003TV	Capacitor СГМ-4-500-Г-6200-I	6200 μ F	1	
310	ОХО.462.021TV	Capacitor КБГ-Н-200-0.03-II	0.03 μ F	1	
311	ЛХ4.754.060	Choke	0.4 H Ring ТЧ-60P-44-0.75 2950 turns H3NEO dia. 0.25	1	

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Ref. No.	GOST, Spec., Standard, Drawing	Description	Ratings	Qty	Note
312	ОХ0.462.021TV	Capacitor КБГ-И-200-0.025-II	0.025 μ F	1	
313	ЛХ4.754.061	Choke ТЧ-60P-44-0.75 3300 turns ПЗЛМО dia. 0.25	0.5 H	1	
314	ОХ0.462.021TV	Capacitor КБГ-И-200-0.07-II	0.07 μ F	2	to be connected in parallel
315	ОХ0.462.021TV	Capacitor КБГ-И-200-0.07-I	0.07 μ F	1	
	ОХ0.461.003TV	Capacitor СГМ-3-500-Г-3000-I	3000 μ F	1	
316	ЛХ4.754.062	Choke ТЧ-60P-44-0.75 3810 turns ПЗЛМО dia. 0.15	0.667 H	1	
317	ОХ0.462.021TV	Capacitor КБГ-И-200-0.025-I	0.025 μ F	1	to be connected in parallel
	ОХ0.462.021TV	Capacitor КБГ-И-200-0.1-I	0.1 μ F	1	
318	ОХ0.467.003TV	Resistor МЛТ-0.5-5100-I	5.1 kilohms	1	
319,	УБ0.464.002TV	Capacitor ЗМ-6-20-M	20 μ F	2	
320					
321	ОХ0.467.003TV	Resistor МЛТ-0.5-13 kilohms-II-A	13 kilohms	1	
322	ОХ0.467.003TV	Resistor МЛТ-0.5-5.6 kilohms -II-A	5.6 kilohms	1	
323,	УБ0.464.002TV	Capacitor ЗМ-6-20-M	20 μ F	2	
324					
325	ОХ0.462.021TV	Capacitor КБГ-И-200-0.1-I	0.1 μ F	1	
326	ОХ0.467.003TV	Resistor МЛТ-0.5-0.15-II-A	150 kilohms	1	
327	УК0.468.004BTV	Resistor СНО-2-470 kilohms 13H	470 kilohms	1	

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Ref. No.	GOST, Spec., Standard, Drawing	Description	Rating	Qty	Note
328	ОЭО.468.021ТВ	Capacitor КБГ-М-200-0.1-I	0.1 μ F	1	
329	ОЭО.467.003ТВ	Resistor МЛТ-0.5-150 kil- ohms-II-A	150 kilohms	1	
330	ОЭО.467.003ТВ	Resistor МЛТ-0.5-100-I	100 ohms	1	
331	ОЭО.467.003ТВ	Resistor МЛТ-0.5-33,000-II-A	33 kilohms	1	
332	ОЭО.462.021ТВ	Capacitor КБГ-М-400-0.03-II	0.03 μ F	1	
333	ОЭО.464.001ТВ	Capacitor 3ГЦ-25- $\frac{400}{20}$ -M	20 μ F	1	
334	ОЭО.467.003ТВ	Resistor МЛТ-2-3000-II	3 kilohms	1	
335	ОЭО.467.016ТВ	Resistor УЛМ-0.25-6 ohms $\pm 3\%$	6 ohms	1	
336	ОЭО.467.003ТВ	Resistor МЛТ-0.5-0.15-II-A	150 kilohms	1	
337,	ОЭО.467.003ТВ	Resistor МЛТ-0.5-0.47-II-A	470 kilohms	2	
338	ОЭО.462.021ТВ	Capacitor КБГ-М-400-0.05-II	0.05 μ F	1	
339	ОЭО.462.021ТВ	Capacitor КБГ-М-600-0.01-I	0.01 μ F	2	
340,	ЛЭ4.754.117Cn	Choke	2.31 mH h = 7 1 ox. ring-400 3100 turns D = 38 ПЭЛЭО dia. 0.15	2	
341					
342					
343					
344,	ОЭО.461.003ТВ	Capacitor СГМ-4-500-Г-5100-I	5100 μ F	2	
345	ЛЭ4.754.117Cn	Choke	2.31 mH 1 ox. ring-400 3100 turns D = 38 h = 7 ПЭЛЭО dia. 0.15	2	
346,					
347					

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Ref. No.	GOST, Spec., Standard, Drawing	Description	Rating	Qty	Note
348	OEO.462.021TV	Capacitor	0.01 μ F	2	
349	OEO.467.003TV	RES-11-600-0.01-I	100 kilohms	1	
350	OEO.467.003TV	Resistor			
		MRT-0.5-0.1-I-A		1	
351	BT3.602.013Ch	Two-pole switch		1	
352	OEO.467.003TV	Resistor	1 kilohm	1	
		MRT-0.5-1000-I			
353	OEO.467.003TV	Resistor	10 kilohms	1	
		MRT-0.5-10,000-I			
354	OEO.461.003TV	Capacitor	1500 μ F	1	
		CFM-3-1500-6-1500-I			
355	OEO.460.008TV	Capacitor	10 - 100 μ F	1	
		KTK-2-10/100			
356	YKO.463.004BTY	Resistor	470 kilohms	1	
		CHO-2-470 kilohms			
		13E			
357	OEO.461.003TV	Capacitor	150 μ F	1	
		CFM-1-250-T-150-II			
358	OEO.461.003TV	Capacitor	150 μ F	1	
		CFM-1-250-T-150-II			

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U N I T 13A

SWITCH

CONNECTION DIAGRAM

LZh 3.602.100 SxE

S E C R E T



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Conductor Nos	Runs from		Runs to		Note	Description of conductor	Runs from		Runs to		Note	
	Plate No.	Terminal No.	Plate No.	Terminal No.			Plate No.	Terminal No.	Plate No.	Terminal No.		
From unit 13A to unit T.D.						Cable No. 2 KHP319 12x1.0 [2]	From unit 13A to unit ARKTIK-M					
27	8	5				1 ~ 110V, 427 c/s	5	6	34	1	Unit 4	
Phase to R	8	10				2 Voltage proportional to R	2	10		3		
5/s	8	8				3 ~ 110V, 427 c/s	8	8		2		
Phase to R	8	7				4 Voltage proportional to R	8	7		4		
From unit 13A to unit FENIKS-M						Cable No. 4 KHP3 14x1.5 [2]	From unit 13A to unit ARKTIK-M					
27	IX	5	24	3	Unit 4	13 Reception of R and RB	7	9	26	9	21	
T.D.	IX	6		4		8 ~ 110V	VIII	4	26	8	21	
	IX	4		6		9 ~ 110V	7	5	26	4	21	
	IX	6		7		6 Signal RB from DL equipment	VIII	5	26	6	21	
CHARGE	IX	7		8		7 Reception of RB	VIII	6	26	7	21	
MENT	IX	8		9		10 Data applied to T.D.	VIII	7	26	10	21	
	IX	10		10		11 Signal MEASUREMENT	VII	2	26	5	21	
From unit 13A to unit FENIKS-M												
15	6	6	24	1	Unit 4							
15	6	9	24	2								
From unit 13A to unit FENIKS-M						Cable No. 23 KHP3 10x1.5 [2]	From unit 13A to unit ARKTIK-M					
reading	III	6	22	3	Unit 4	7 ~ 110V, 50 c/s	7					
reading	III	7		4		8 ~ 110V, 50 c/s	7					
reading	III	8		5		1 Phase 1 coarse reading	II					
reading	III	3		6		2 Phase 2 coarse reading	II					
reading	III	4		7		3 Phase 3 coarse reading	II					
reading	III	5		8		4 Phase 1 fine reading	II					
reading	III	2		1		5 Phase 2 fine reading	II					
reading	III	7		2		6 Phase 3 fine reading	II					

UNIT 13A
Connection
Diagram

UNIT 13A
Connection
Diagram

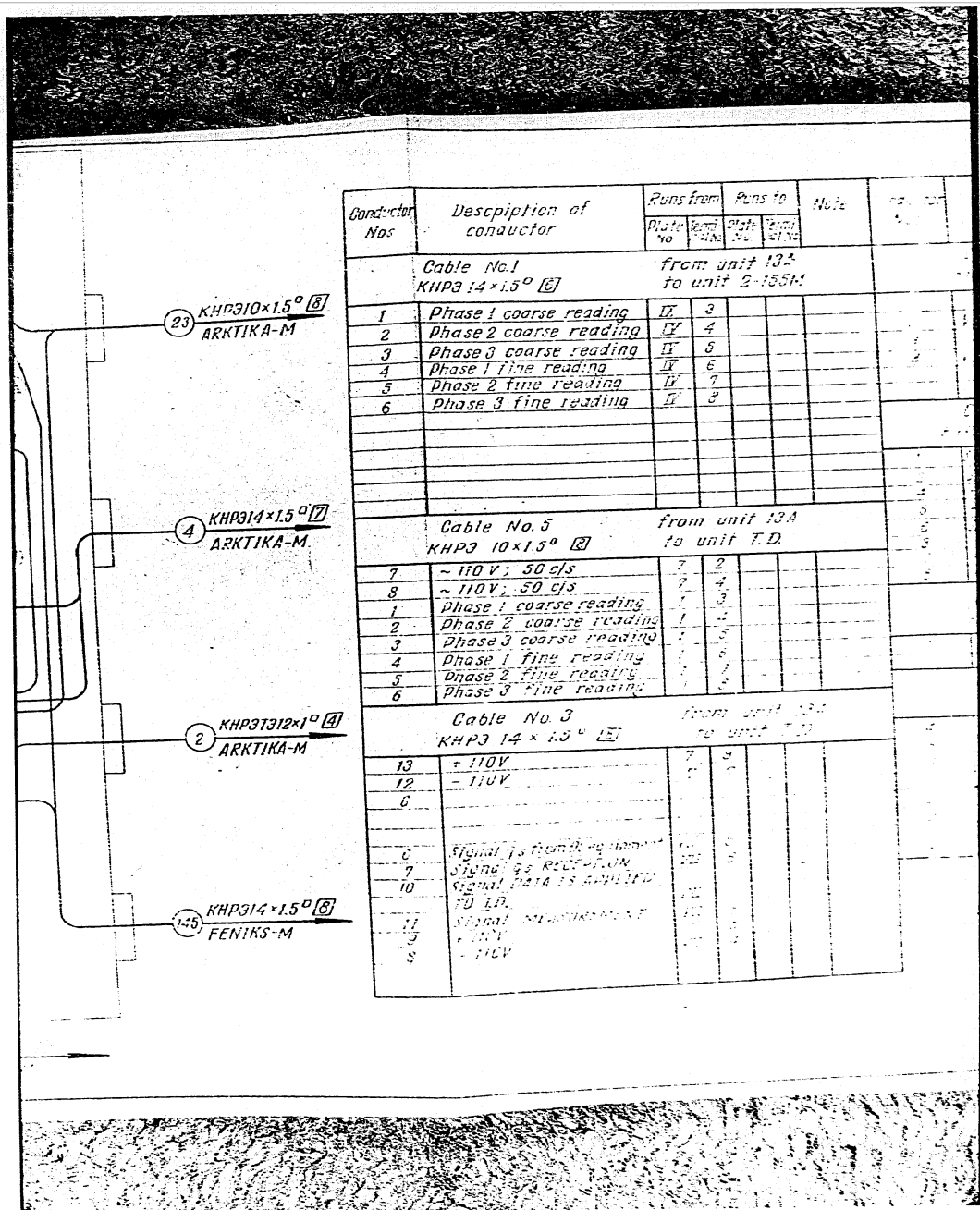
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Cable No.	Runs from		Runs to		Note	Indicator Nos	Description of conductor	Runs from		Runs to		Note	Indicator Nos	
	Plate No.	Terminal No.	Plate No.	Terminal No.				Plate No.	Terminal No.	Plate No.	Terminal No.			
from unit 13A to unit 3-155M							Cable No. 6 KHP310 12x1° [2]	From unit 13A to unit T.D.						
reading	IX	3					~110V, 427 c/s	8	5					
reading	IX	4					Voltage proportional to R	8	10					
reading	IX	5					~110V, 427 c/s	8	8					
reading	IX	6					Voltage proportional to R	8	7					
reading	IX	7												
reading	IX	8												
from unit 13A to unit T.D.							Cable No. 150 KHP310 1.5° [2]	From unit 13A to FENIX-M						
							1 Signal from DL equipment switch	IX	5	24	3	Unit 4	15	
							2 Signal PS IN T.D.	IX	6		4		8	
							4 ~110V	IX	4		6		9	
							5 +110V	7	6		7		6	
							6 Signal DO NOT ROTATE HANDWHEEL	IX	7		8		7	
							3 SIGNAL MEASUREMENT	IX	8		5		16	
							7 ~110V	7	9		9		11	
							8 +110V	7	10		10			
from unit 13A to unit T.D.							Cable No. 149 KHP3 3x1.5° [2]	from unit 13A to unit FENIX-M						
							1 ~110V, 427 c/s	8	8	24		Unit 4		
							2 ~110V, 427 c/s	8	8	24				
from unit 13A to unit T.D.							Cable No. 145 KHP3 14x1.5° [2]	from unit 13A to unit FENIX-M						
							4 Phase 1 line reading		4		3	Unit 4		
							5 Phase 2 line reading				4			
							6 Phase 3 line reading				5			
							7 Phase 1 coarse reading				6			
							2 Phase 2 coarse reading				7			
							3 Phase 3 coarse reading				8			
equipment	VI	8												
equipment	III	5												
equipment	IV	1												
equipment	IV	2												
equipment	IV	3												
equipment	IV	4												

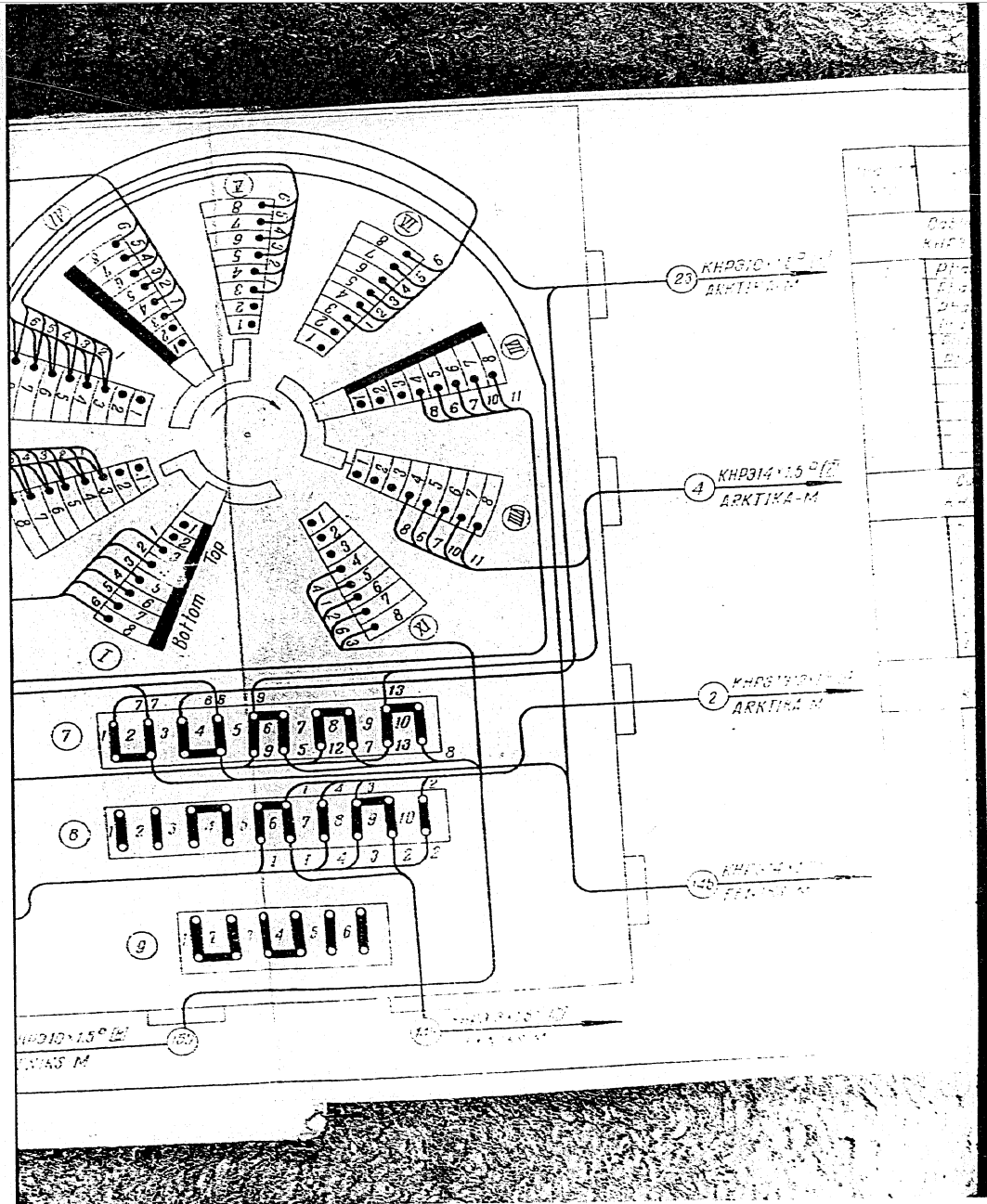
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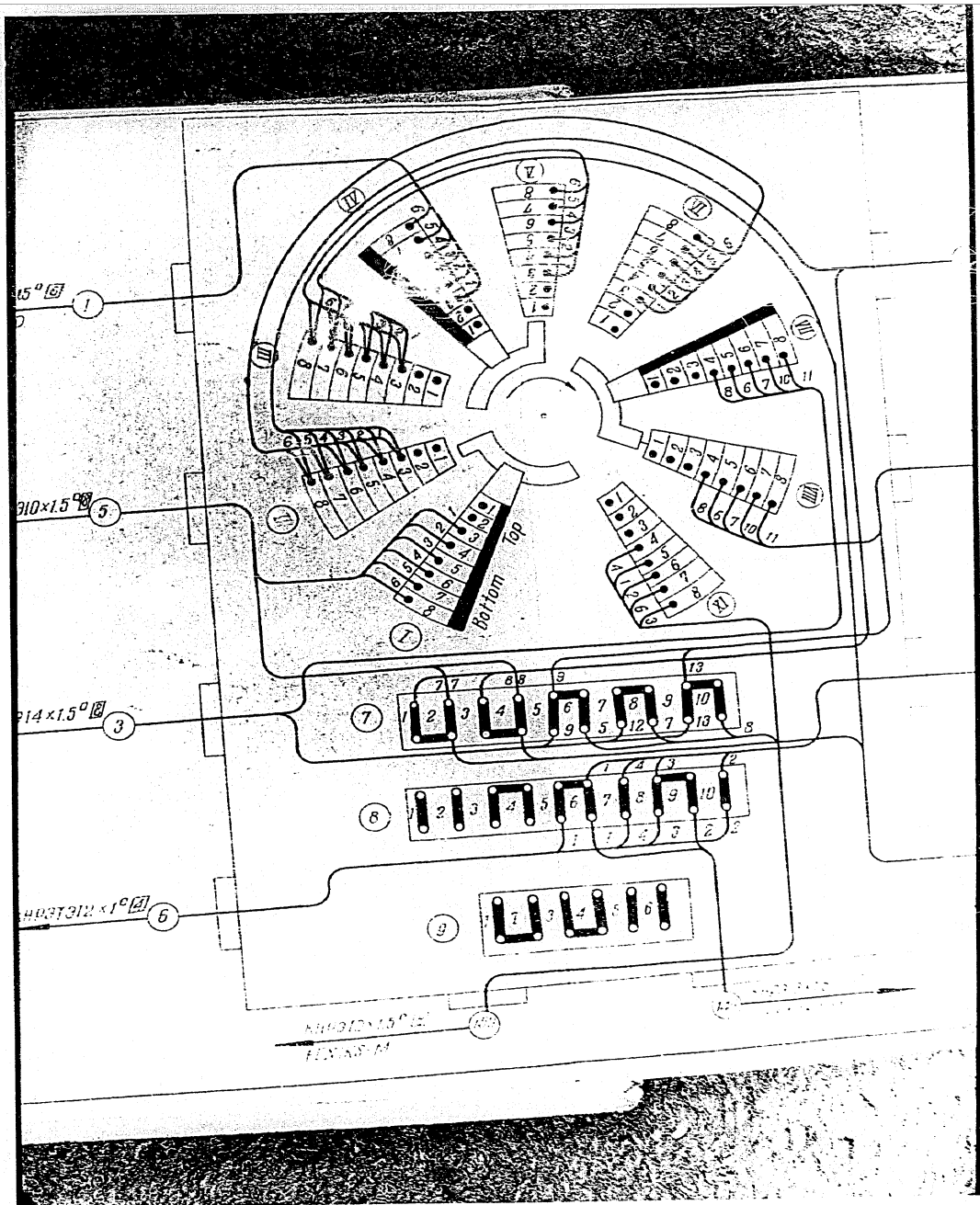
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SECRET

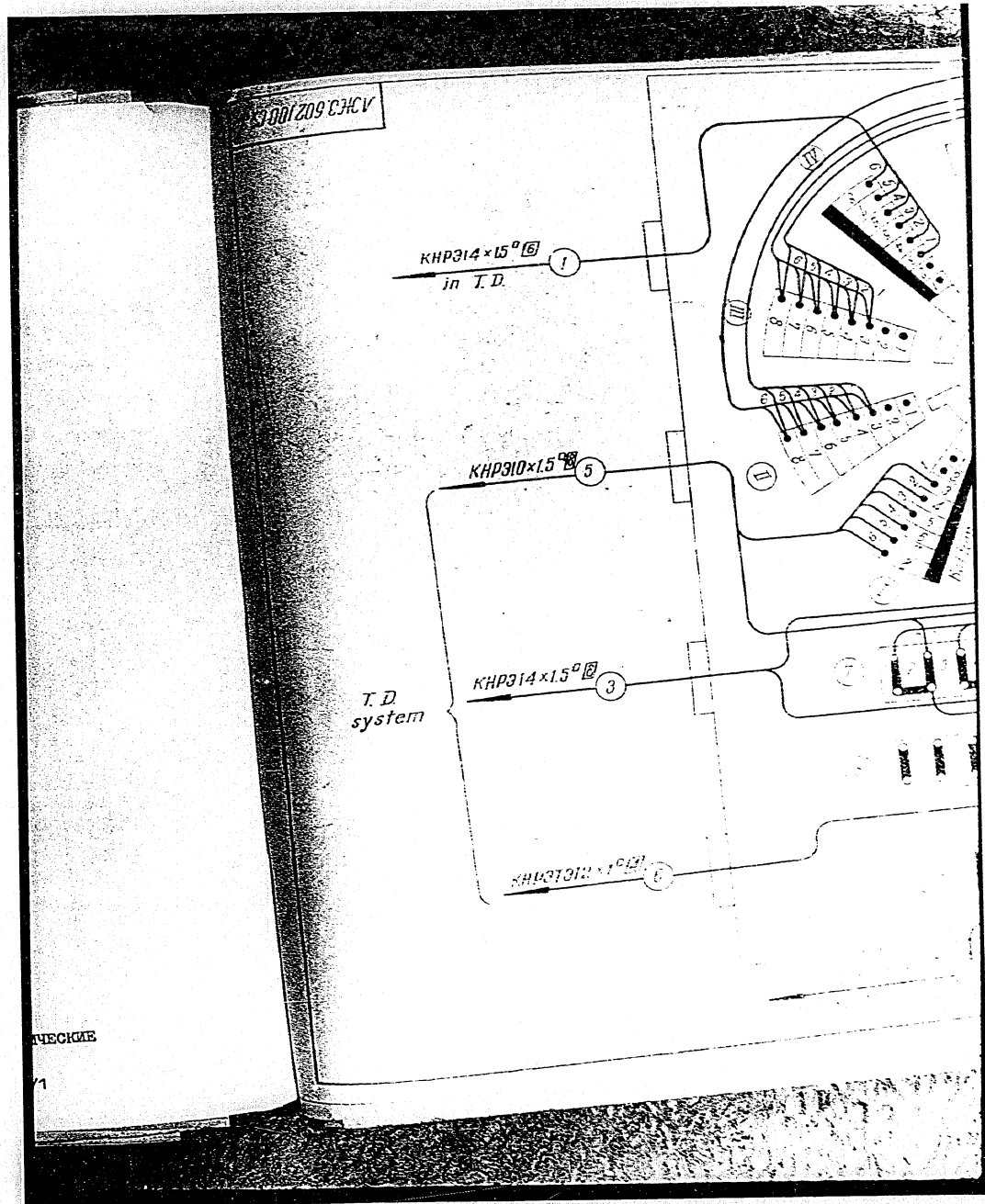
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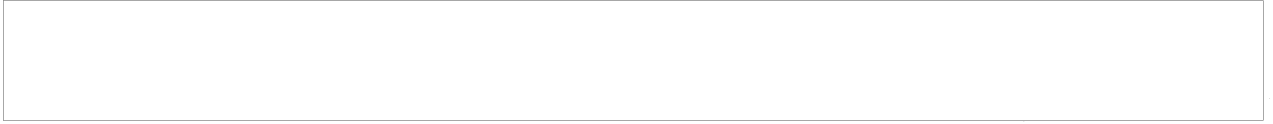


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U N I T 4-73-2

ACOUSTIC SYSTEM

SCHEMATIC DIAGRAM

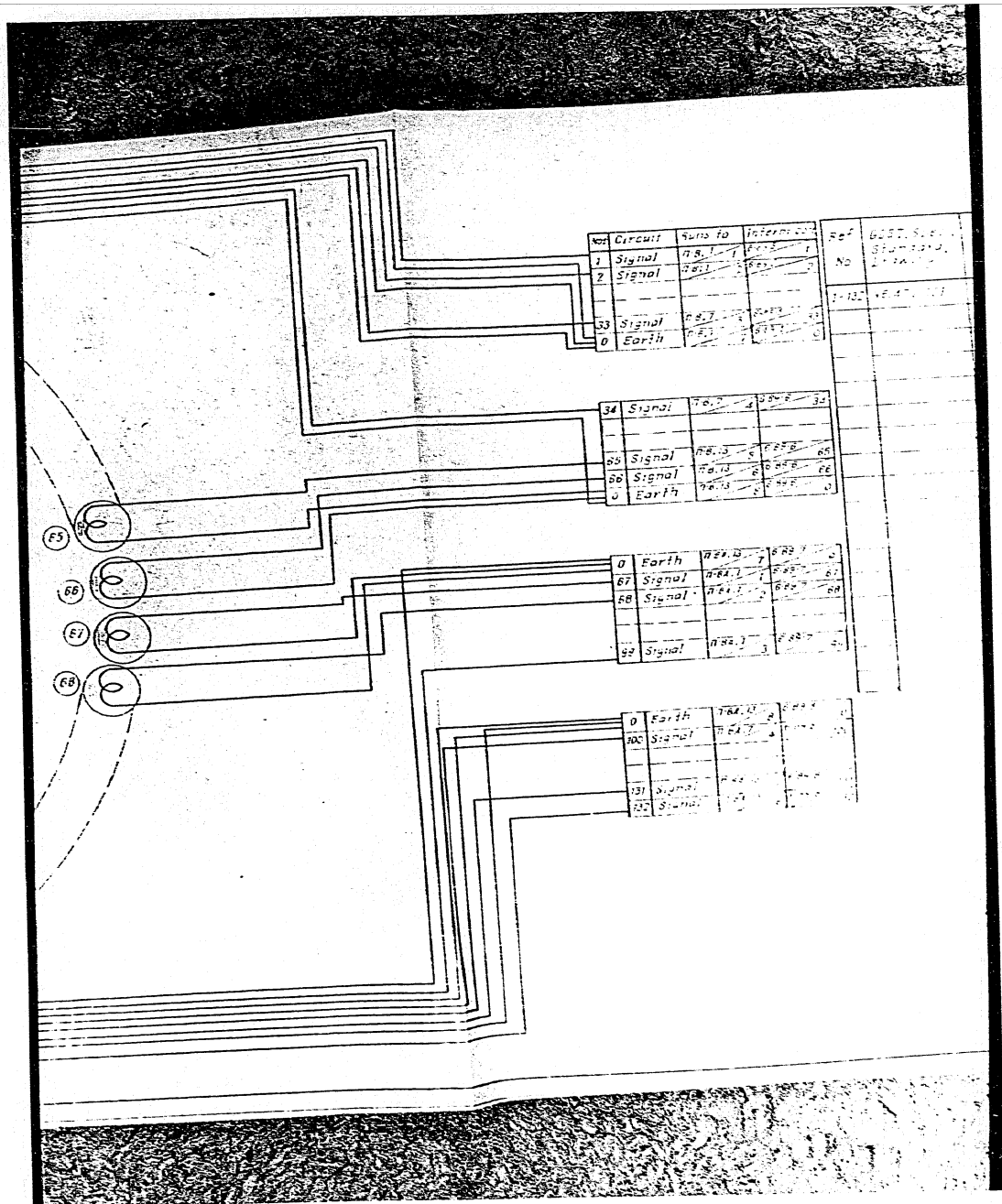
LZh 3.834.000 SxE

S E C R E T



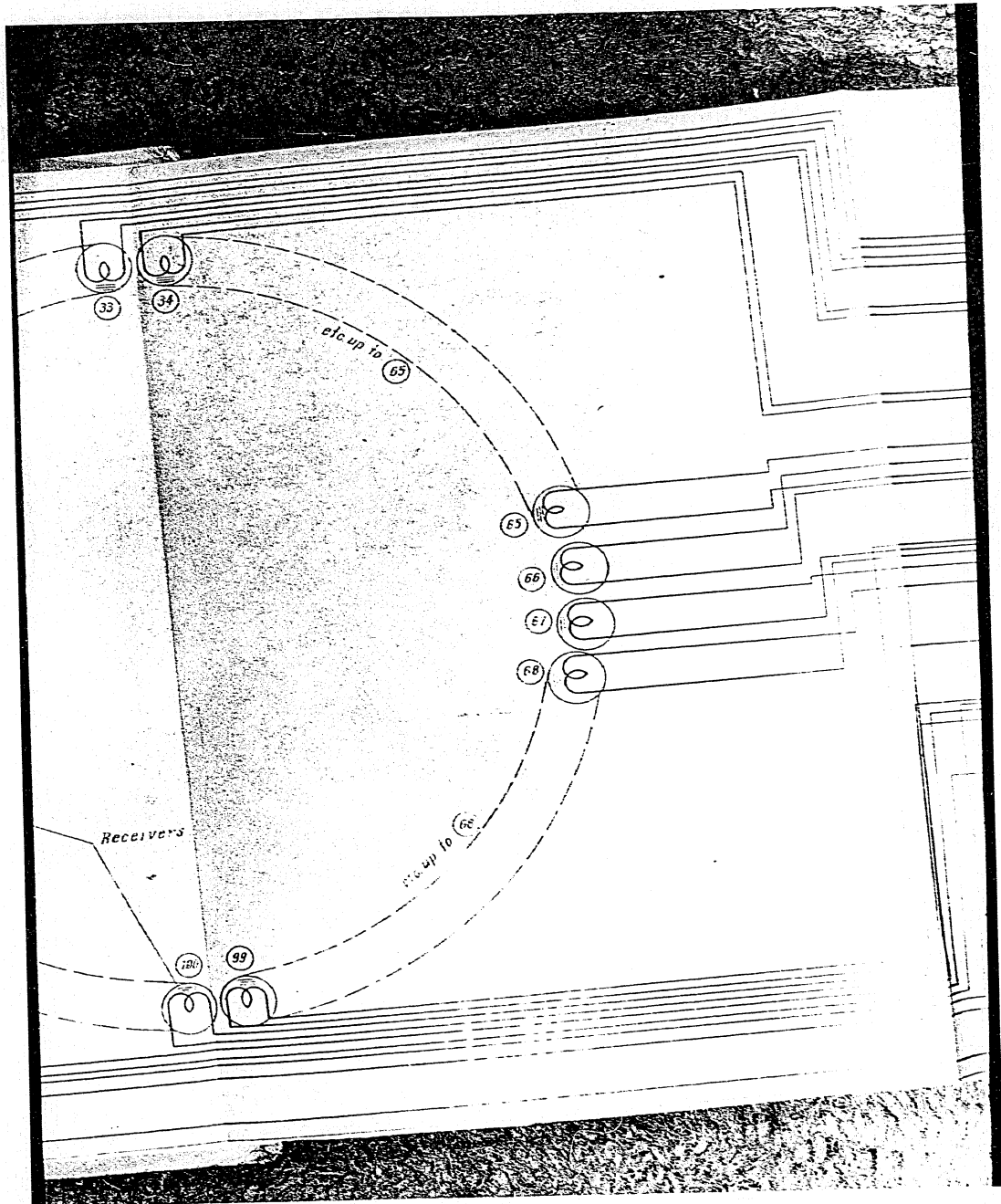
Acoustic System
(Unit 4-73-2)
Schematic Diagram

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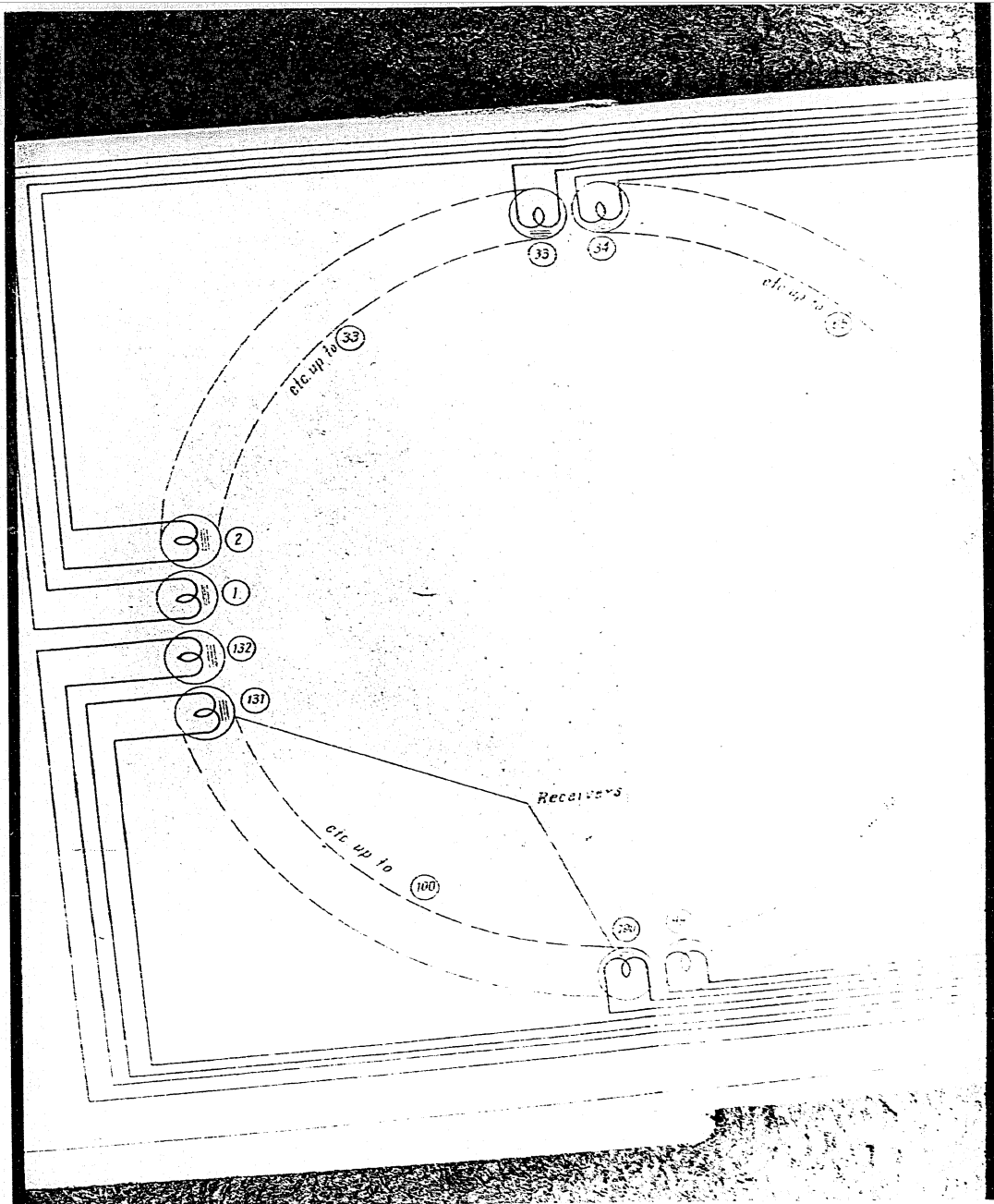
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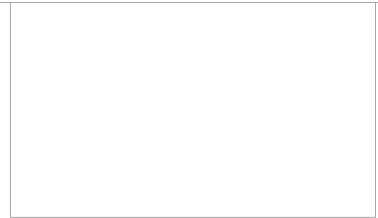
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S E C R E T

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F E N I K S - M E Q U I P M E N T

CONNECTION DIAGRAM

LZh 1.106.205 SxS

50X1-HUM



SECRET

50X1-HUM



50X1-HUM

1. Free
2. Engr
of ca
3. Cable
delive
4. Cable
section
Cable
5. When
shout
6. When
and
In H
7. Cable
be 2
8. Rese
to t
be sf^o
9. Cab
for
10. Fit
scre
a dding.
11. Coloe
man
If
num
12. To m
13. For
8 a

FENIKS-M

Connection
Diagram

11X 1.106.205 LNC

Letter	Sheet	Number

50X1-HUM

1. Free conductors of the cables should be insulated.
2. Encircled figures which are given in the places where the cable is broken up of cables, glands and plug connectors.
3. Cables Nos 1-132, make-up KBД-1 2-15° and cables Nos 161 and 162, make-up K, delivered together with the units.
4. Cable KHP3T3 37-1° and supply cables of units 8 and 8A should be laid in steel sections and in steel casing or steel braiding at bonds providing continuity of screening. Cable KHP3T3 37-1° should be laid at a distance of 300mm minimum from the conductors.
5. When FENTKS-M equipment and ARKTIKA-M equipment are installed, cables No 133-134 should be laid to unit 13A (see diagram ЛK 3.602.100 Cx C).
6. When terminating cable KHP3T3 37-1° remove screening from the conductors and do not screen them anew.
7. In the places where the conductors are brought into the units their screening should be continued. Cable KHP3T3 Nos 141, 144, 147, 148 should be laid in steel conduits which should be 2mm minimum. Provision should be made for continuity of screening.
8. Reserve conductors Nos 35, 36, 37 of each cable KHP3T3 37-1° should be 3mm and be soldered into a common lug and grounded in one point with the ground.
9. Cable Nos 161 and 162 should be laid in steel conduits forming an individual screening for continuity of screening.
10. Fit a steel braiding on cables KBД-1 2-15° from the plate to the cable boxes. If the cable boxes are arranged in close vicinity to the plate, fit a detachable metal casing which closes the plate and the cable boxes.
11. Colouring of cable KBД-1 conductors in one base can be: conductor 1 - white, conductor 2 - black, conductor 3 - red. If the both conductors are coloured, polyvinyl-chloride pipes with marking numbers are fitted on the ends of the conductors.
12. To minimize interference in units 6-89-4, 6-89-5, 6-89-6, 6-89-7 the conductors should be screened.
13. For decreasing of the noises it is allowed to switch off the condensers of units 8 and 8A (see ЛK 2.032.501-502 Cx 3).

50X1-HUM

ES.

ulated.

aces where the cable is broken, indicate the number.

ables Nos 161 and 102, must up to 2×10^3 are8 and 8A should be laid in steel conduits or through
it bends providing continuity of screening.ice of 300mm minimum from the power cable run
equipment are installed, cables Nos 145, 149 and 150
(602.100 CxC).

screening from the conductors inside the units

ught into the units their screening should be grounded

be laid in steel conduits whose wall thickness should
ade for continuity of screening.able KHP3T3 $37 \times 1^\circ$ should be soldered to the cable wire

ne point and in units 8 and 8A these conductors should

ded in one point with the grounding jumpers of cable No 145
steel conduits forming an individual run. Provision should be made

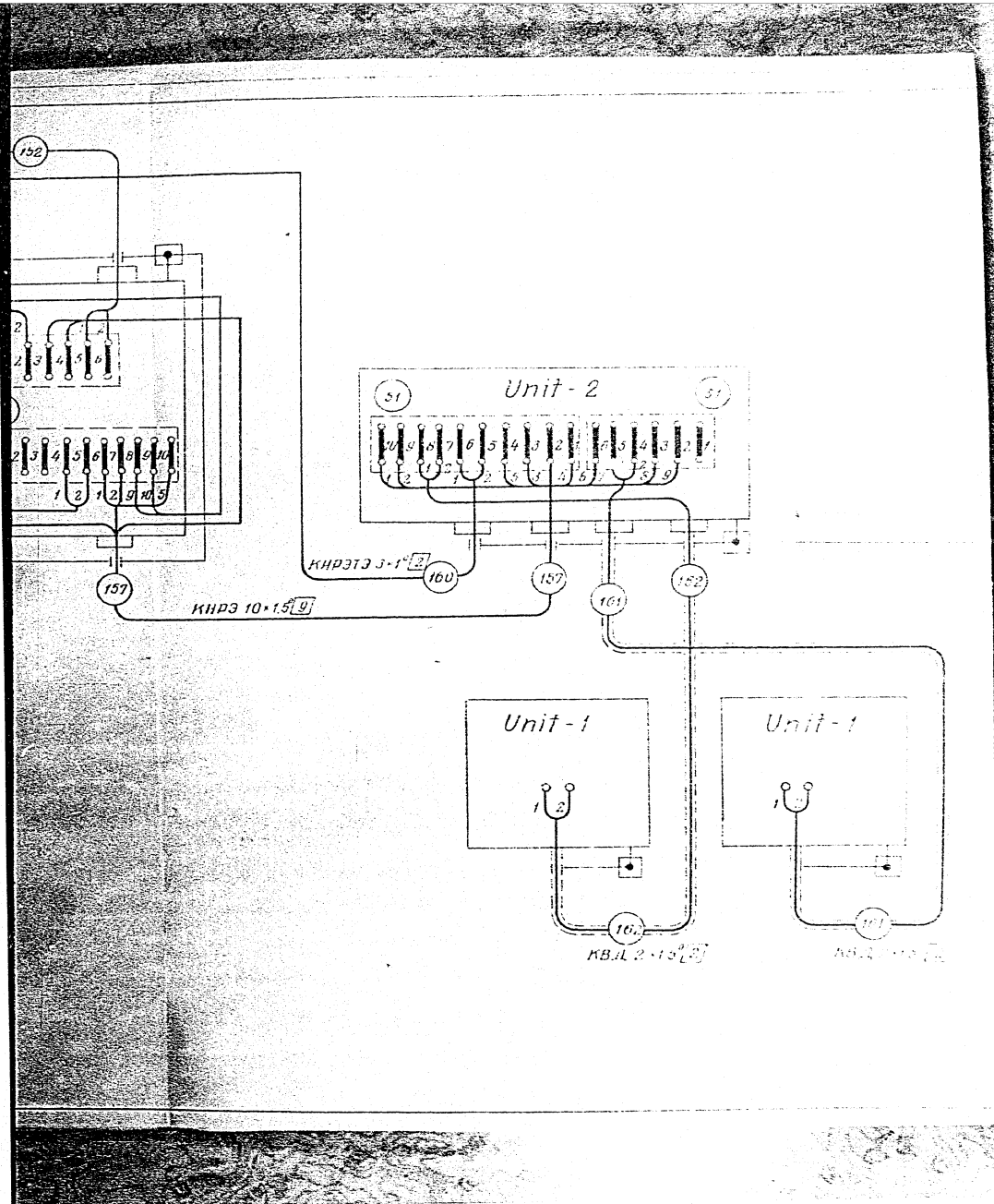
$^\circ$ from the plate to the cable boxes providing continuity of
ged in close vicinity to the plate it is permissible to install
the plate and the cable boxes instead of using the steel board
one base can be: conductor 1 (a) coloured, (b) white with figure
ad; conductor 2 (a) pure white, (b) with white caprone film ad;
7-chloride pipes with marking 1 and 2 indicating the conductor
conductors.

, 6-89-5, 6-89-6, 6-89-7 the neutral busbar may be grounded

to switch off the condensers 26 of the devices

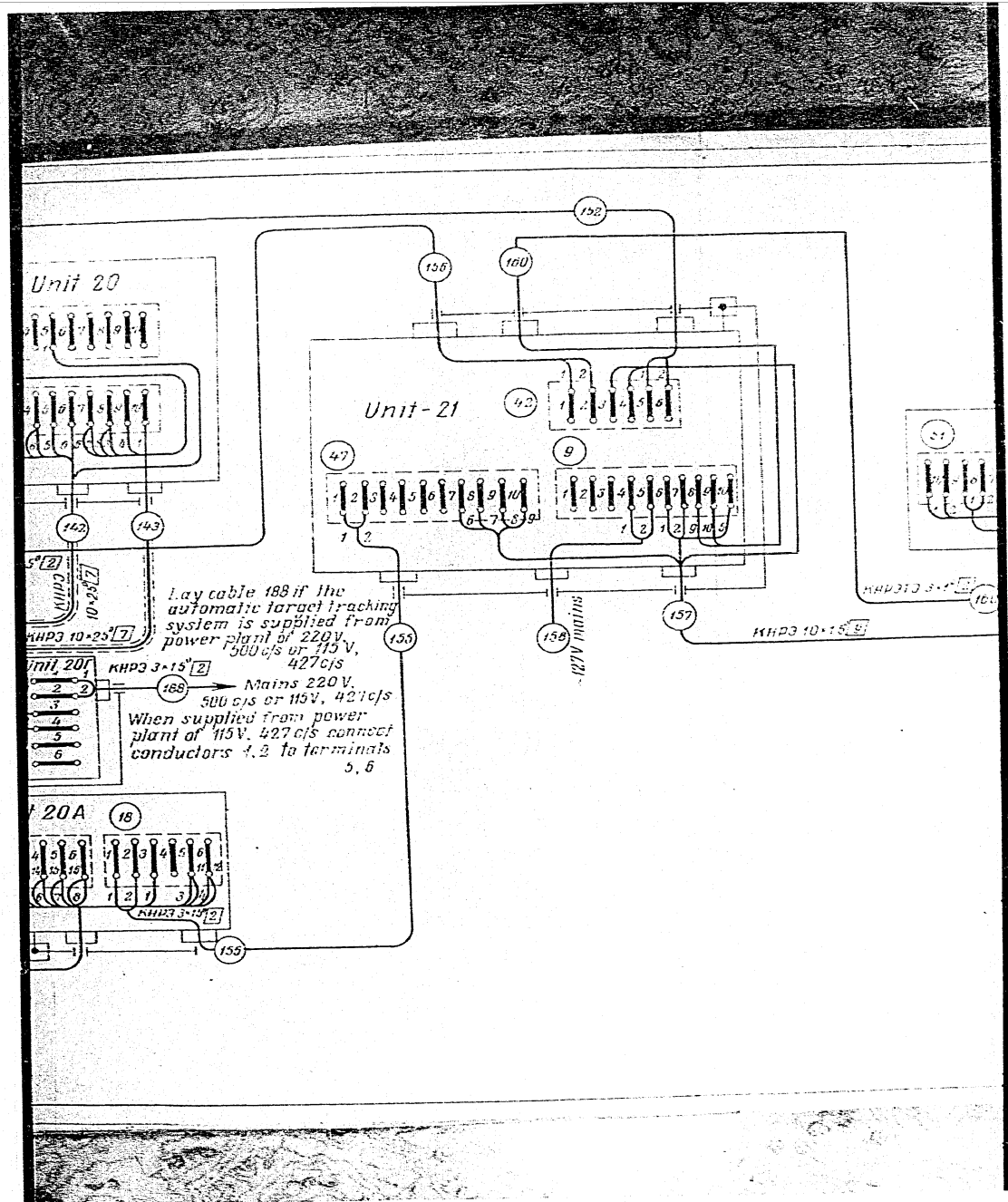
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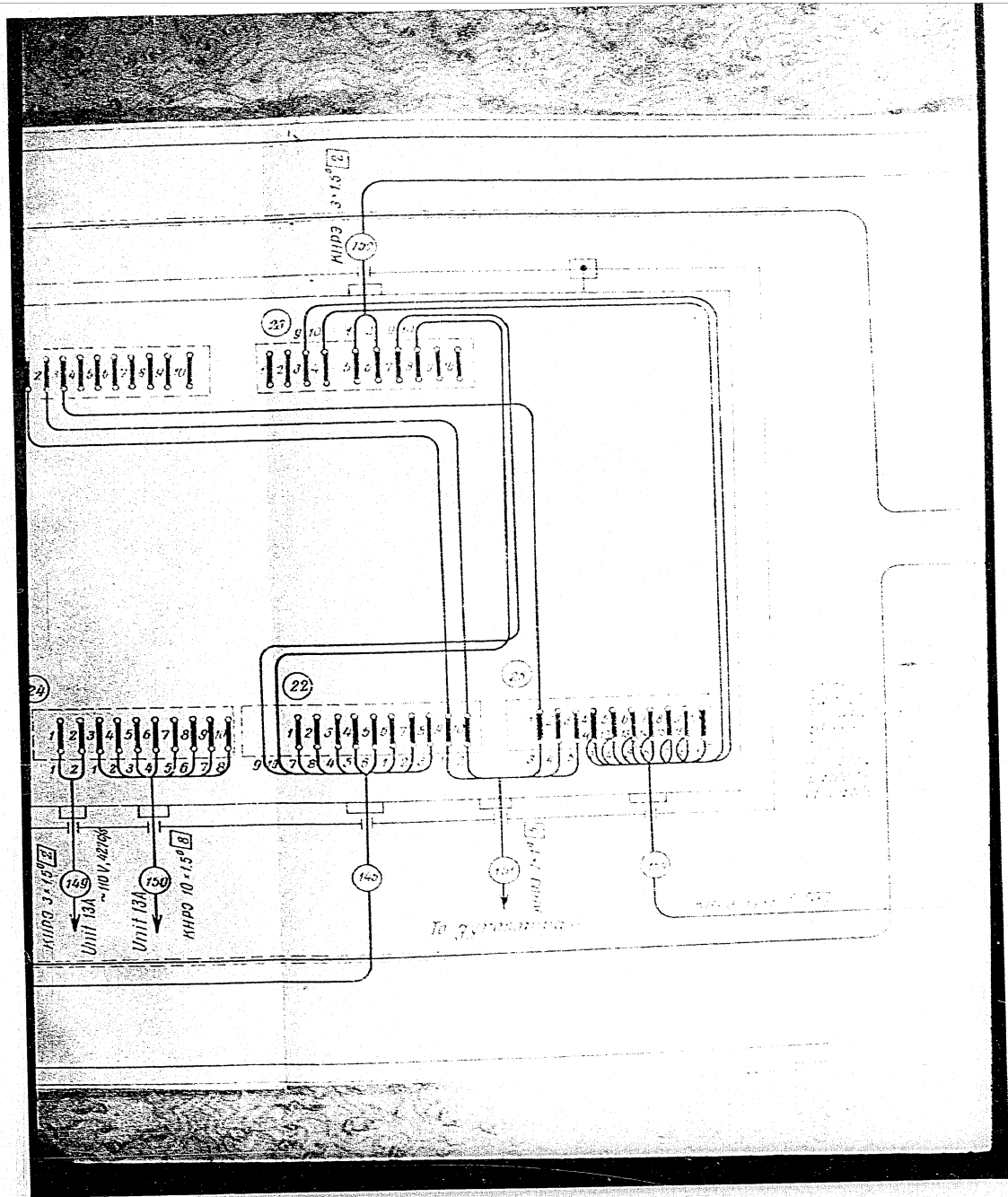
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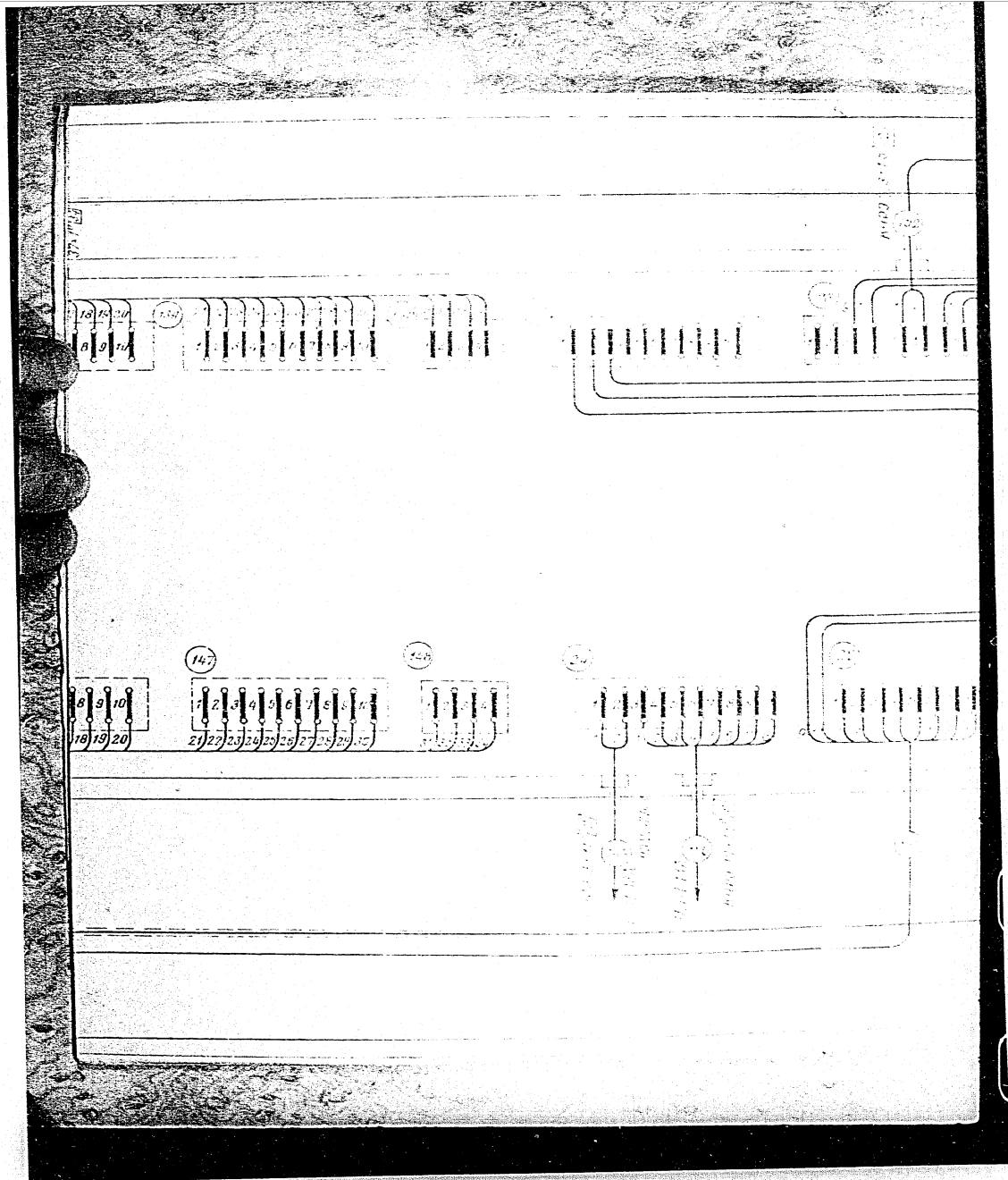


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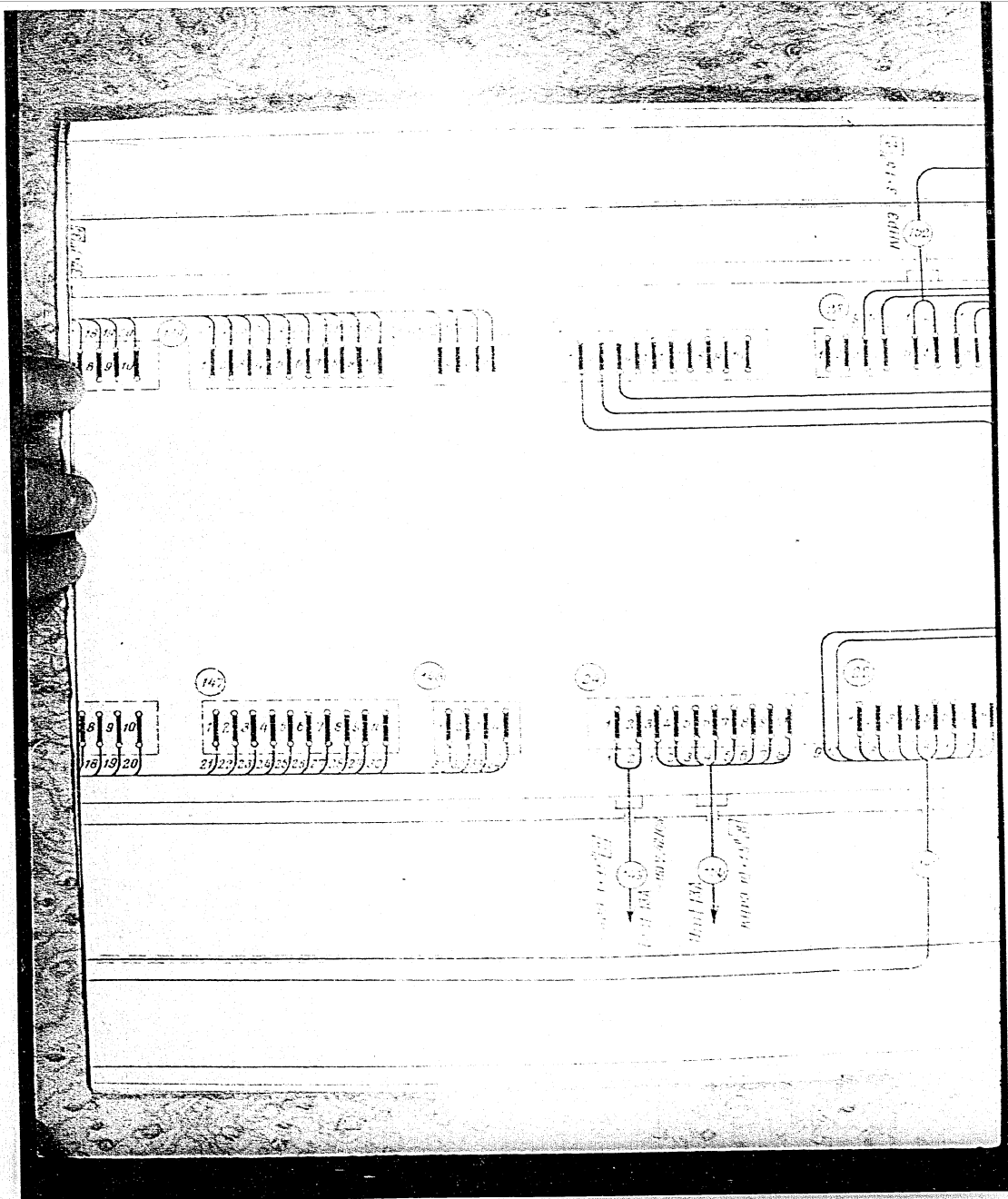
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GRAPH

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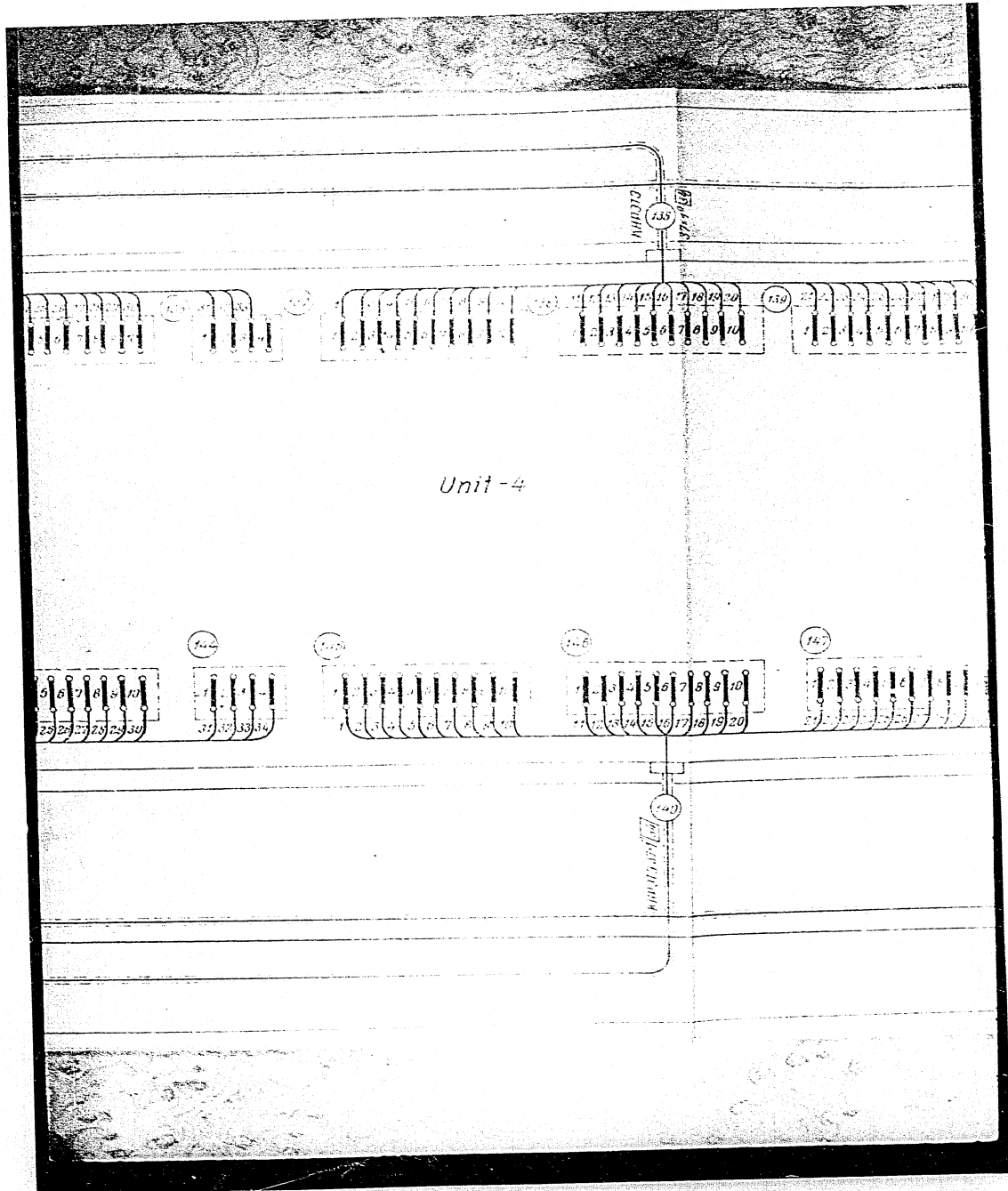


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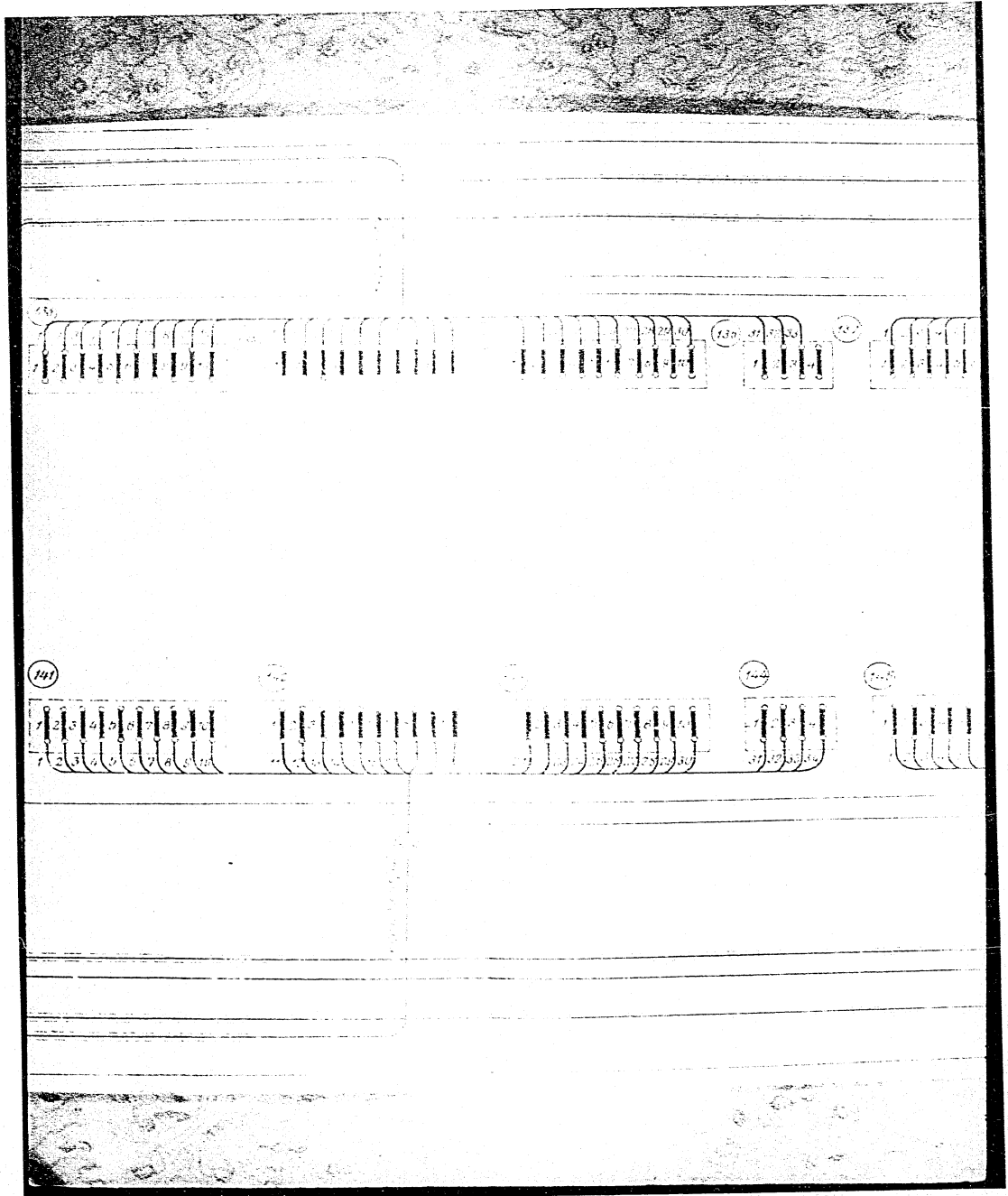
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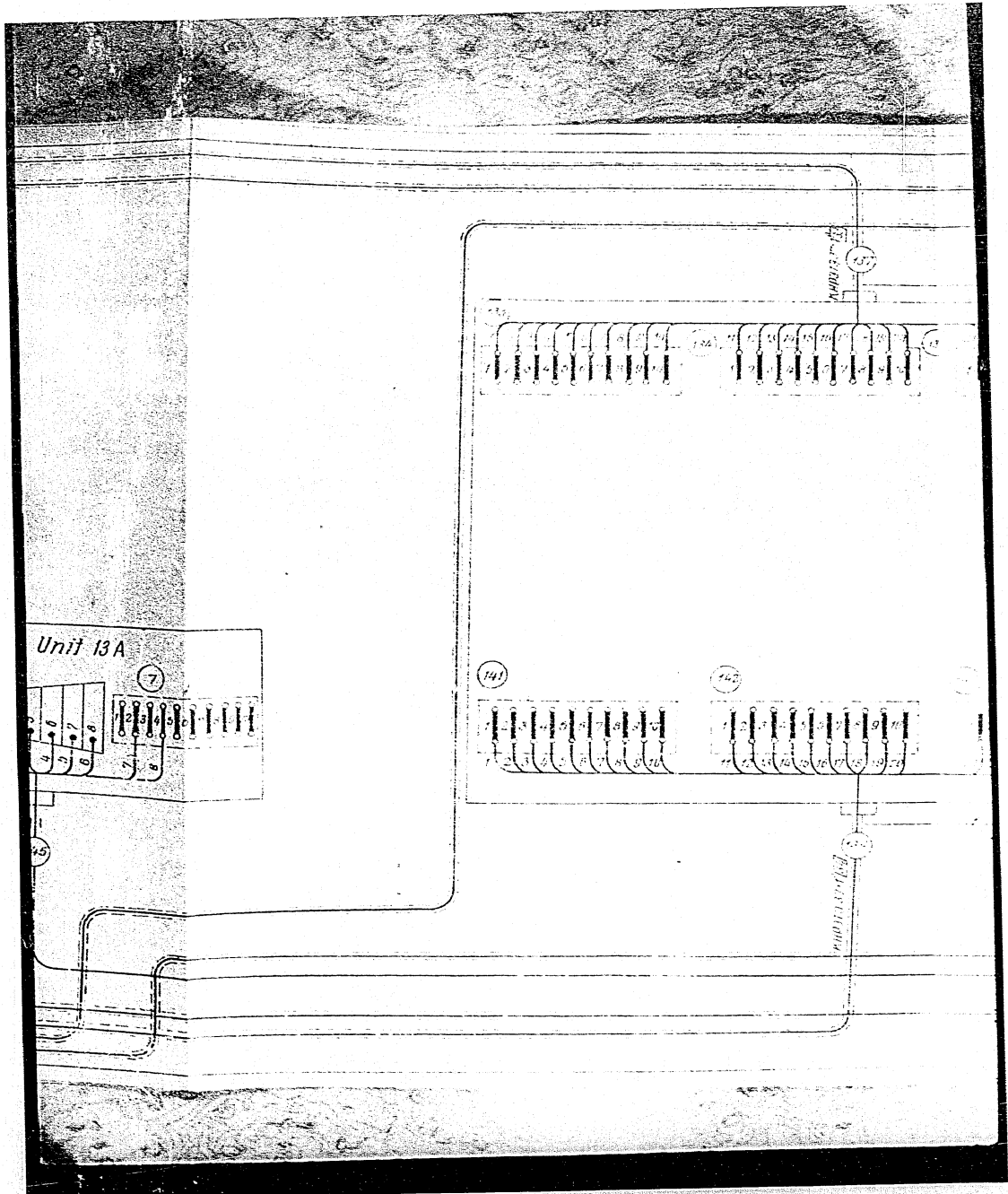
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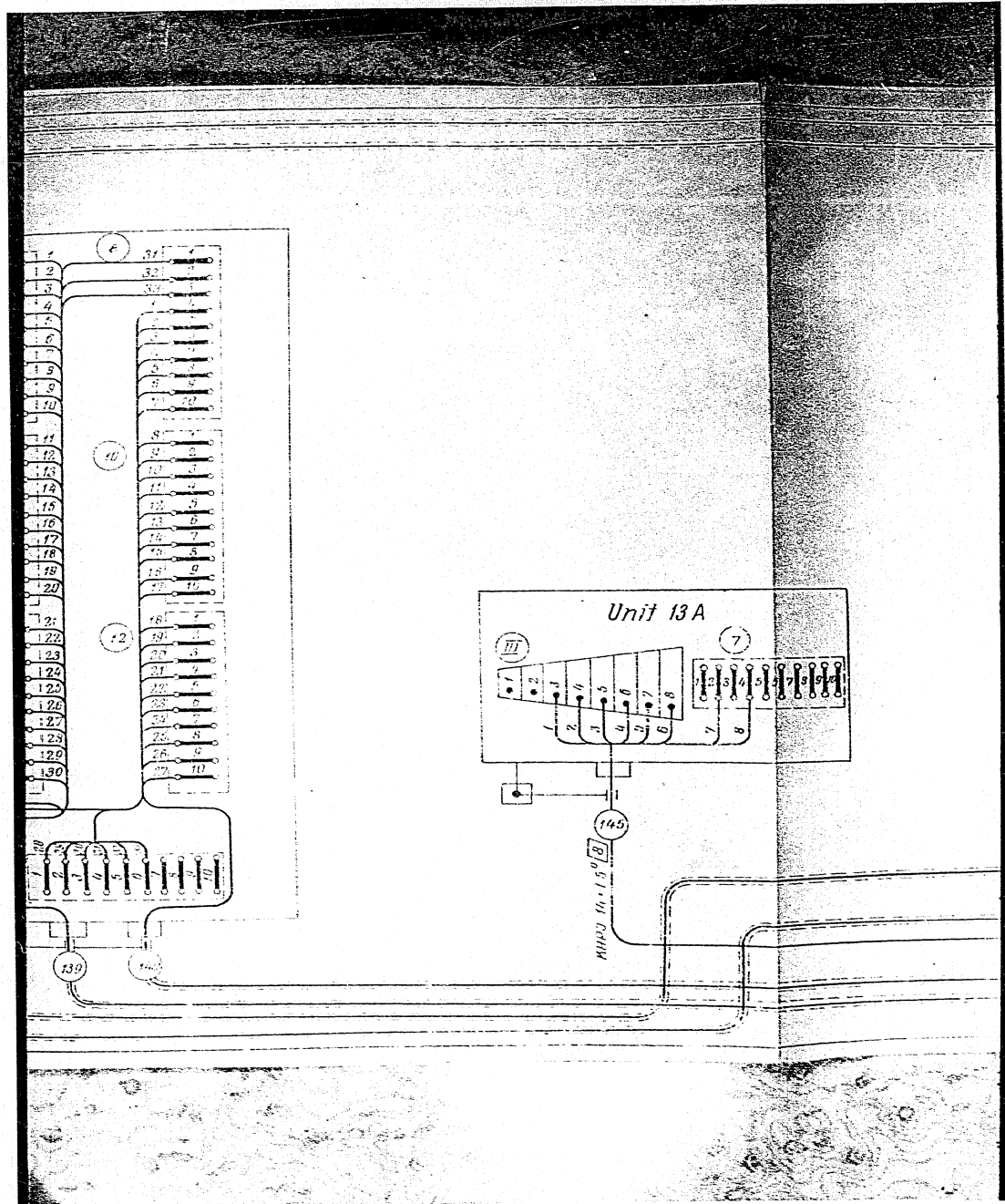
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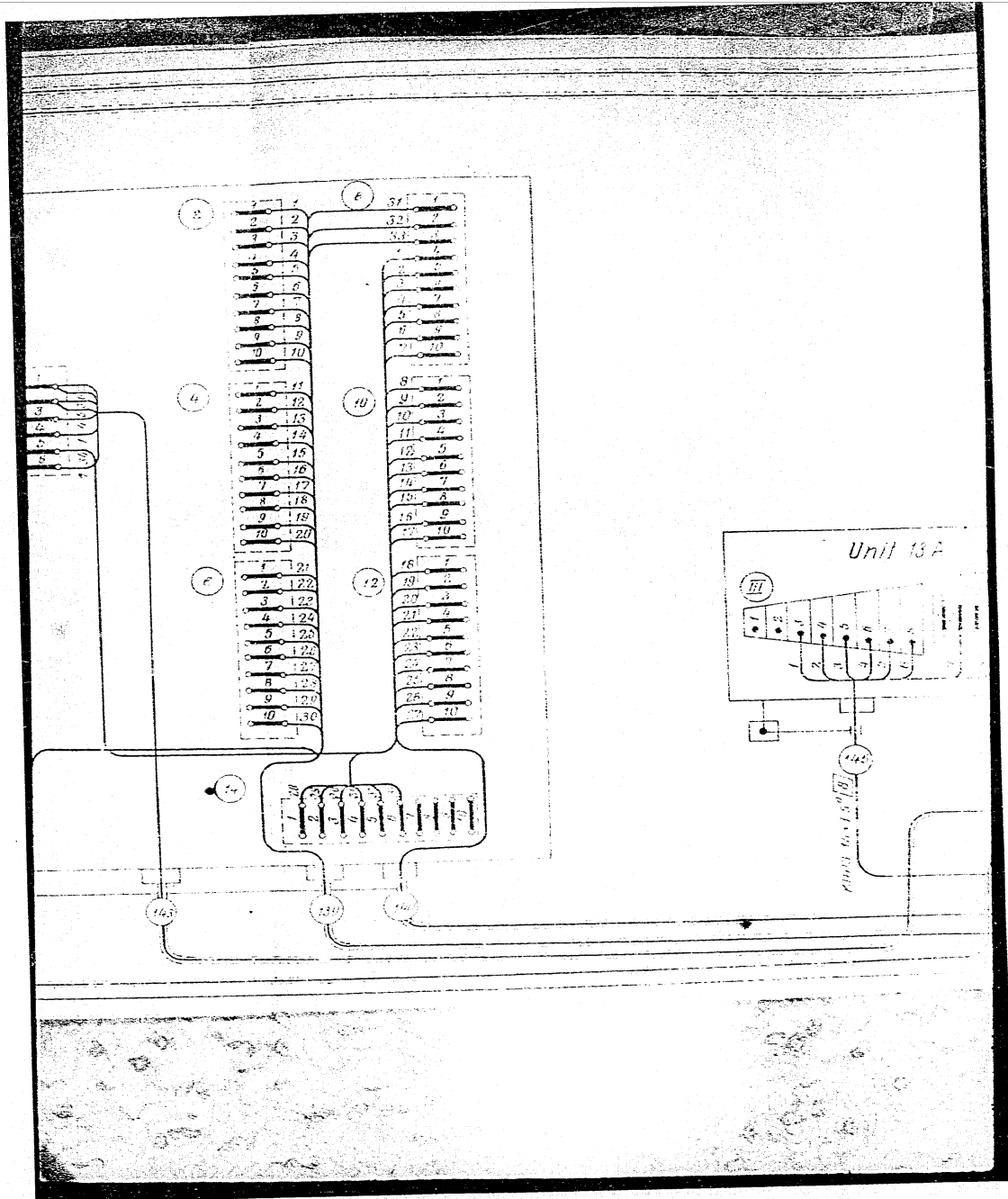
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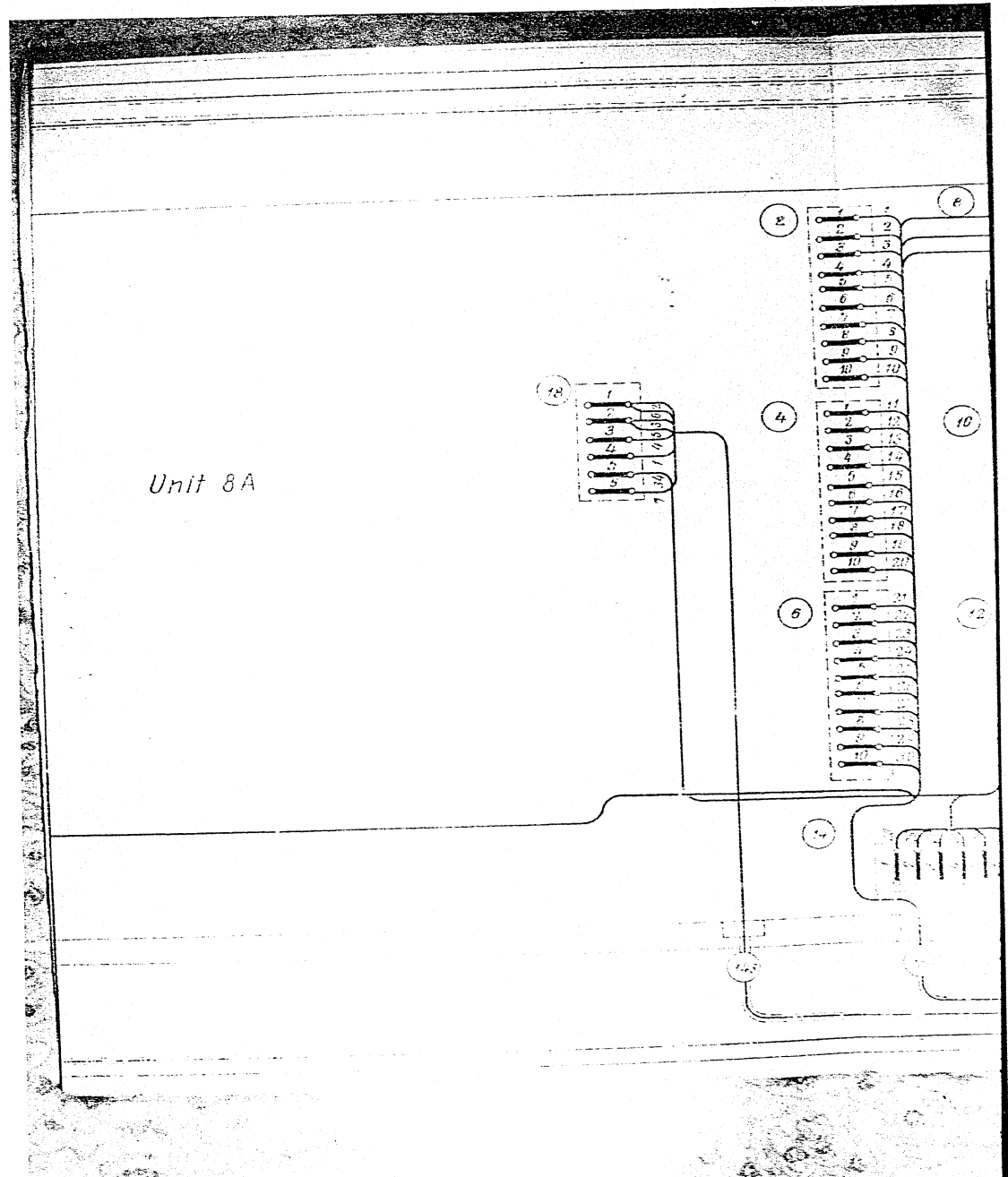
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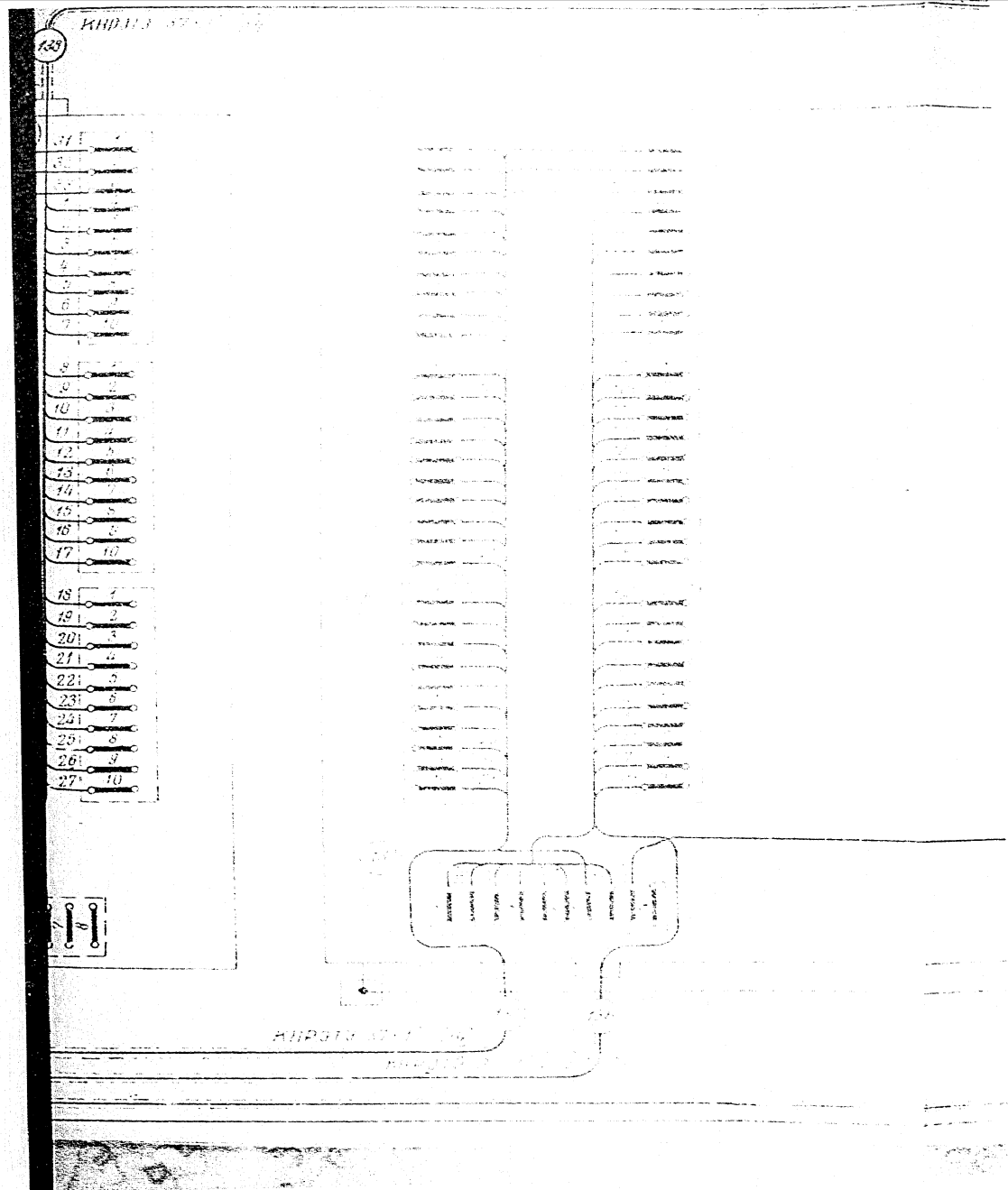
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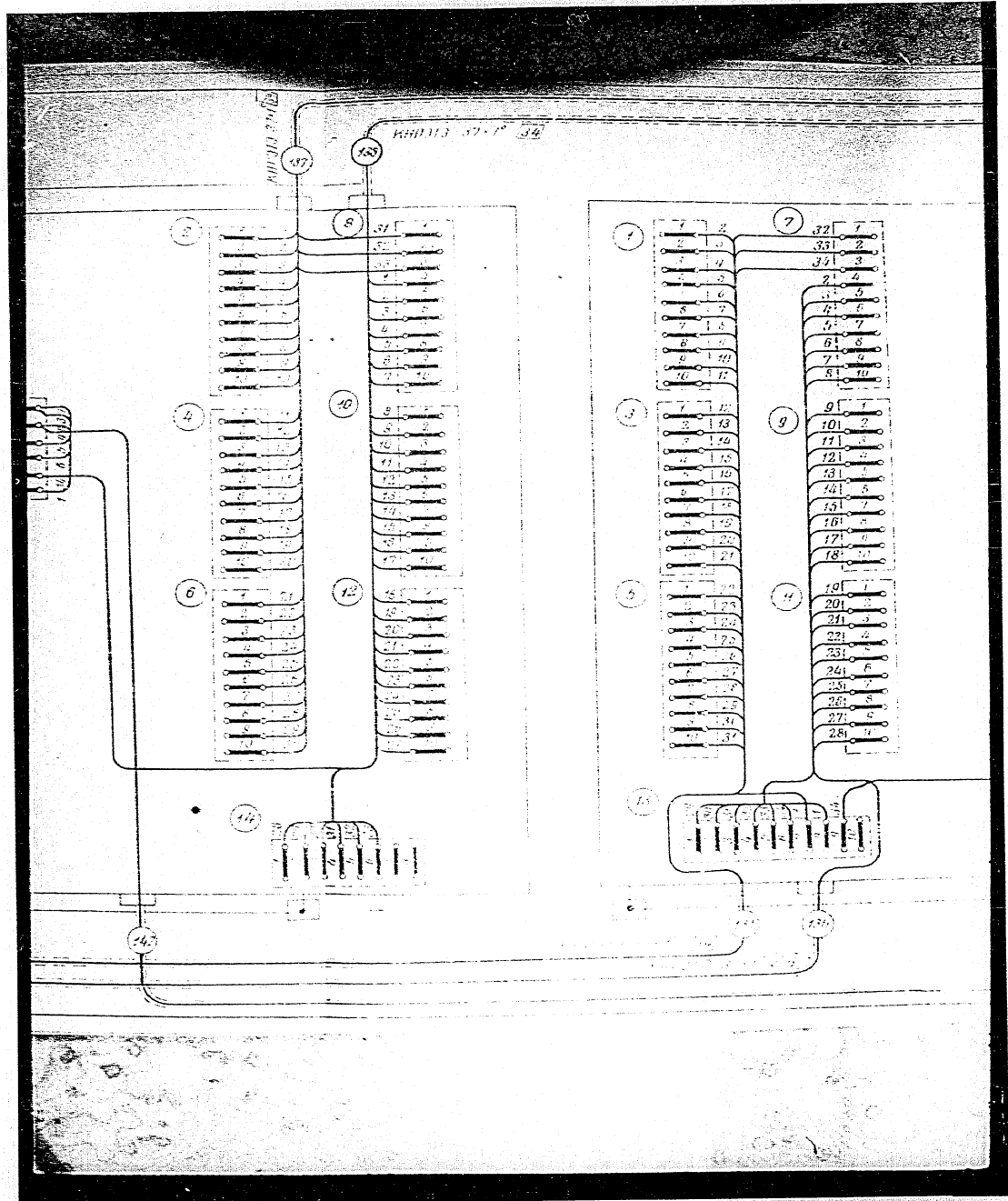
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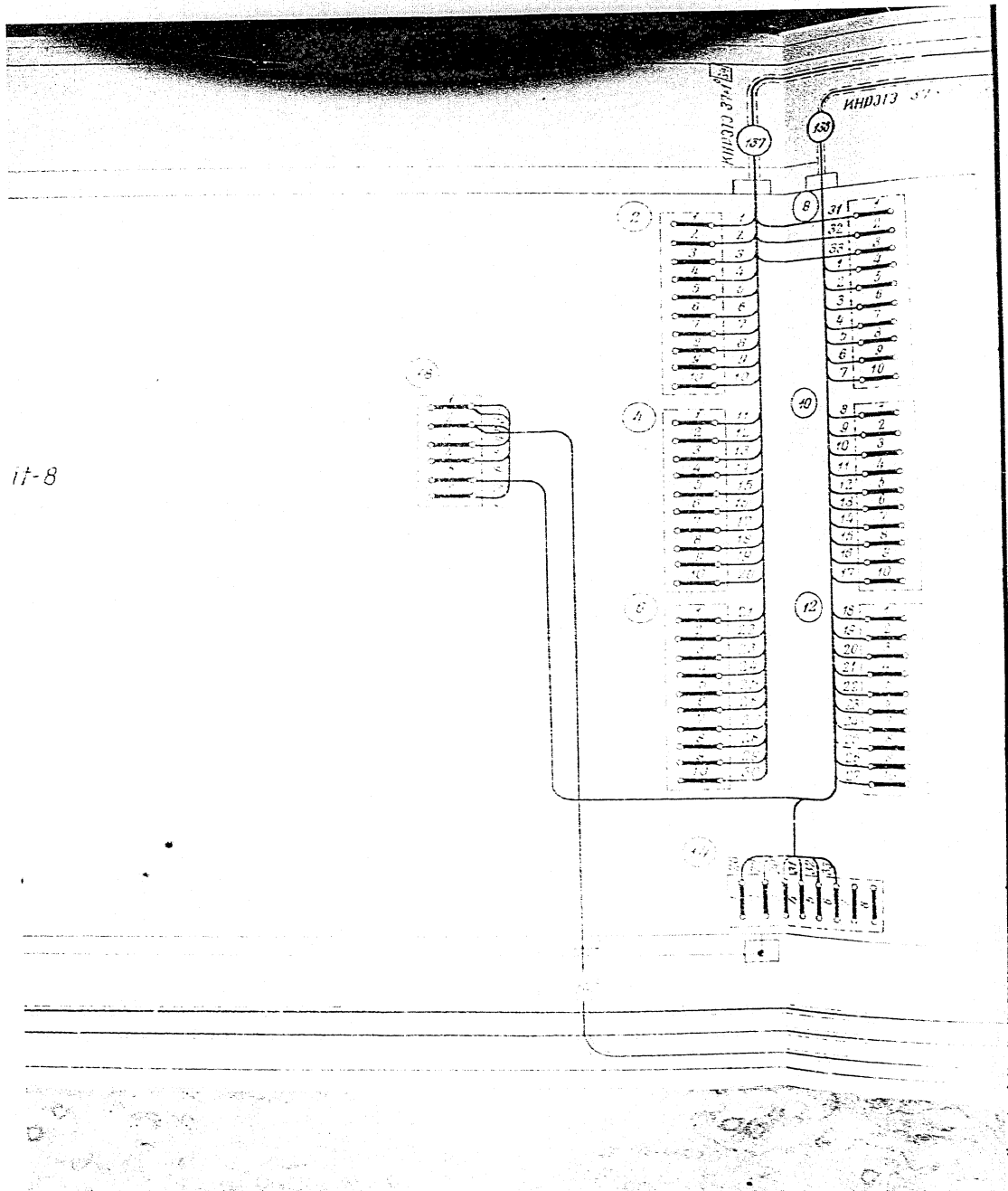
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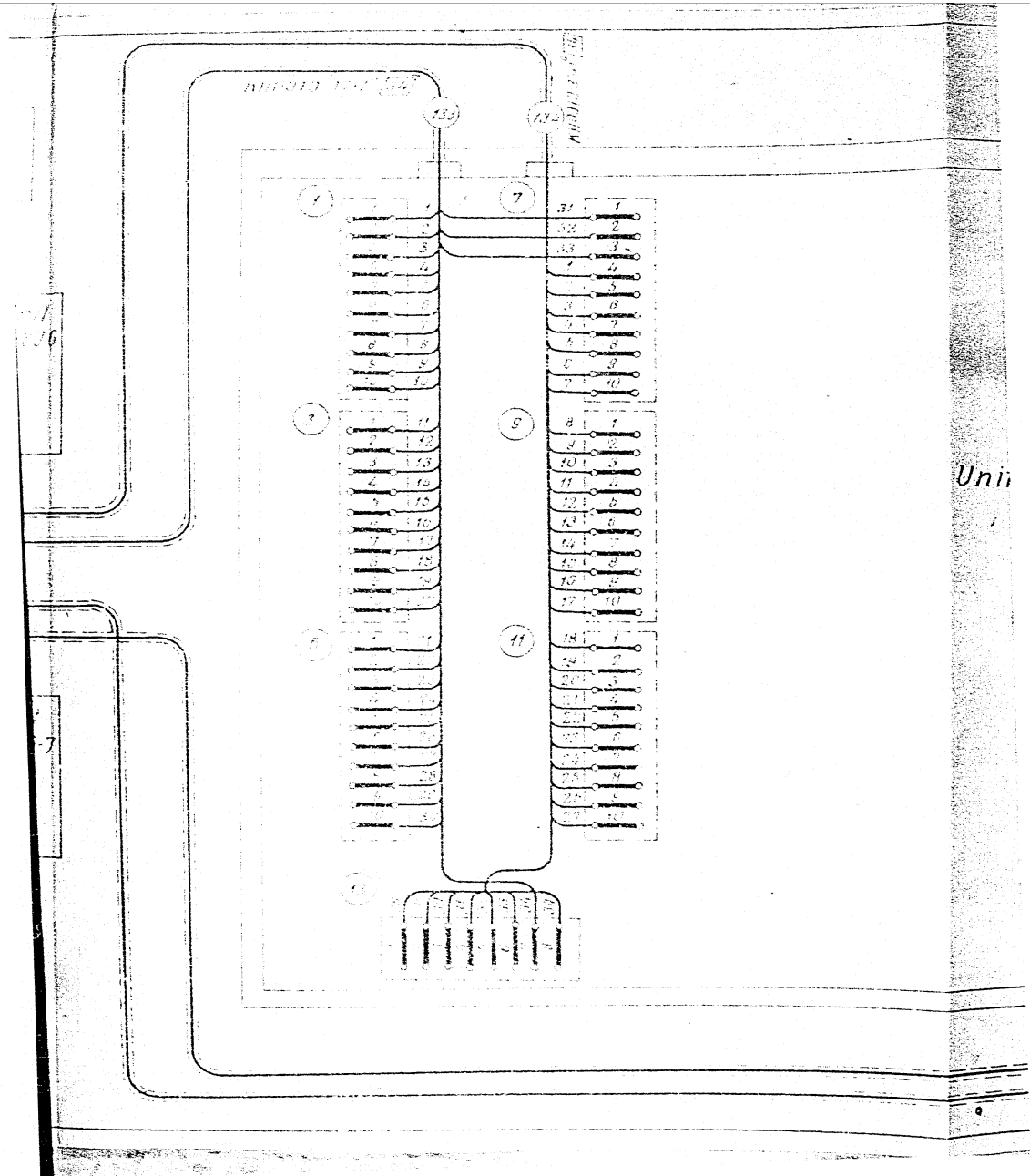
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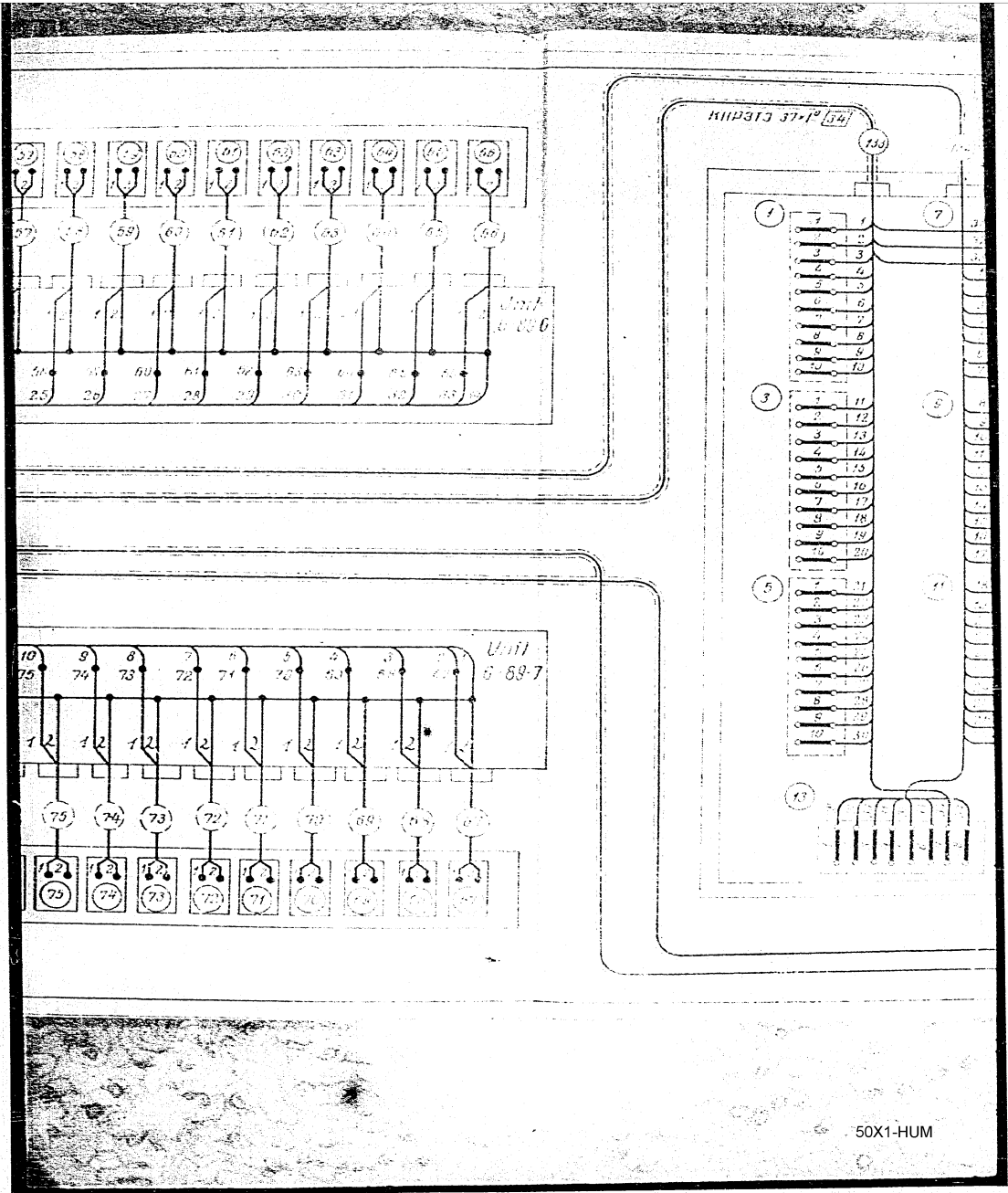
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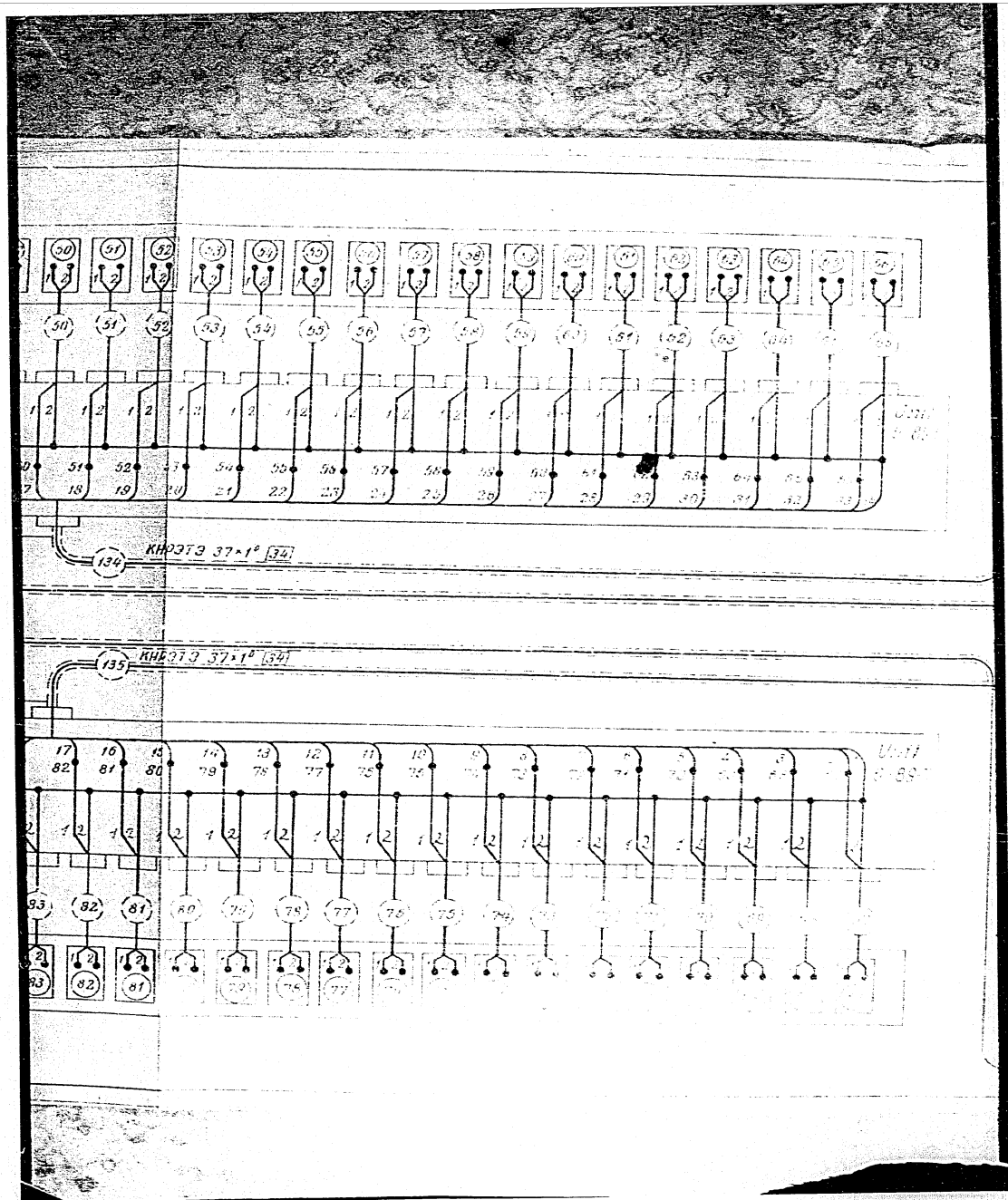
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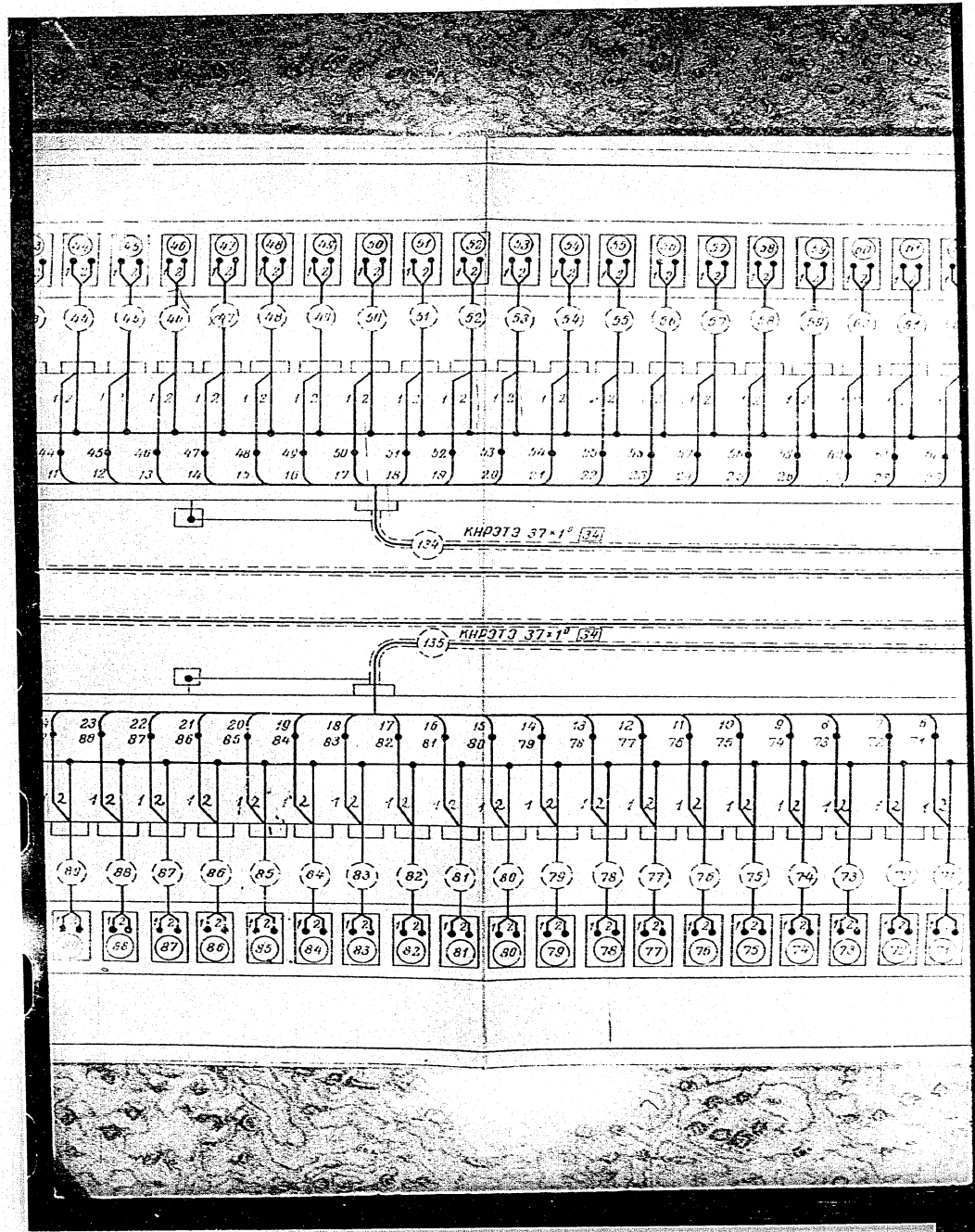
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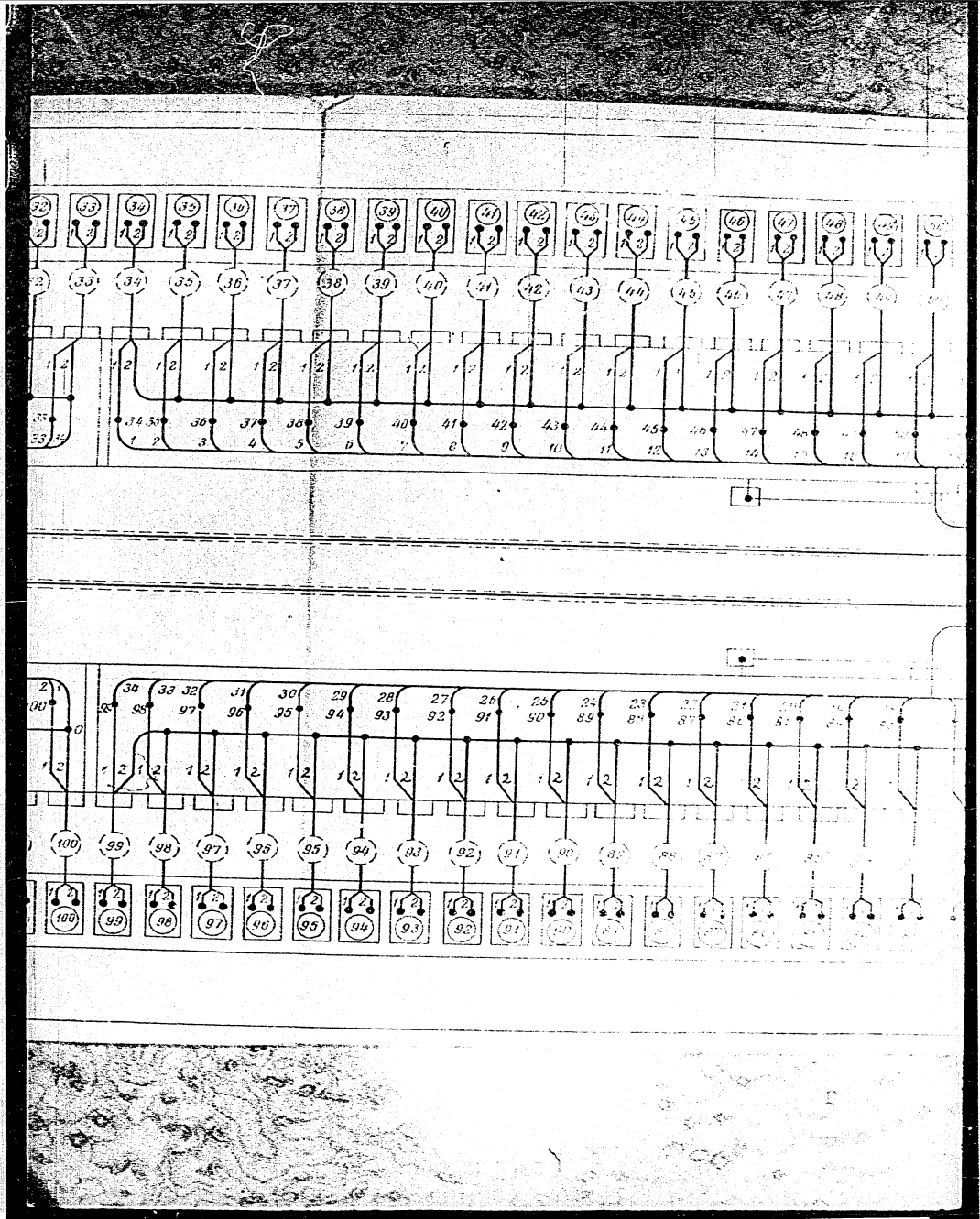
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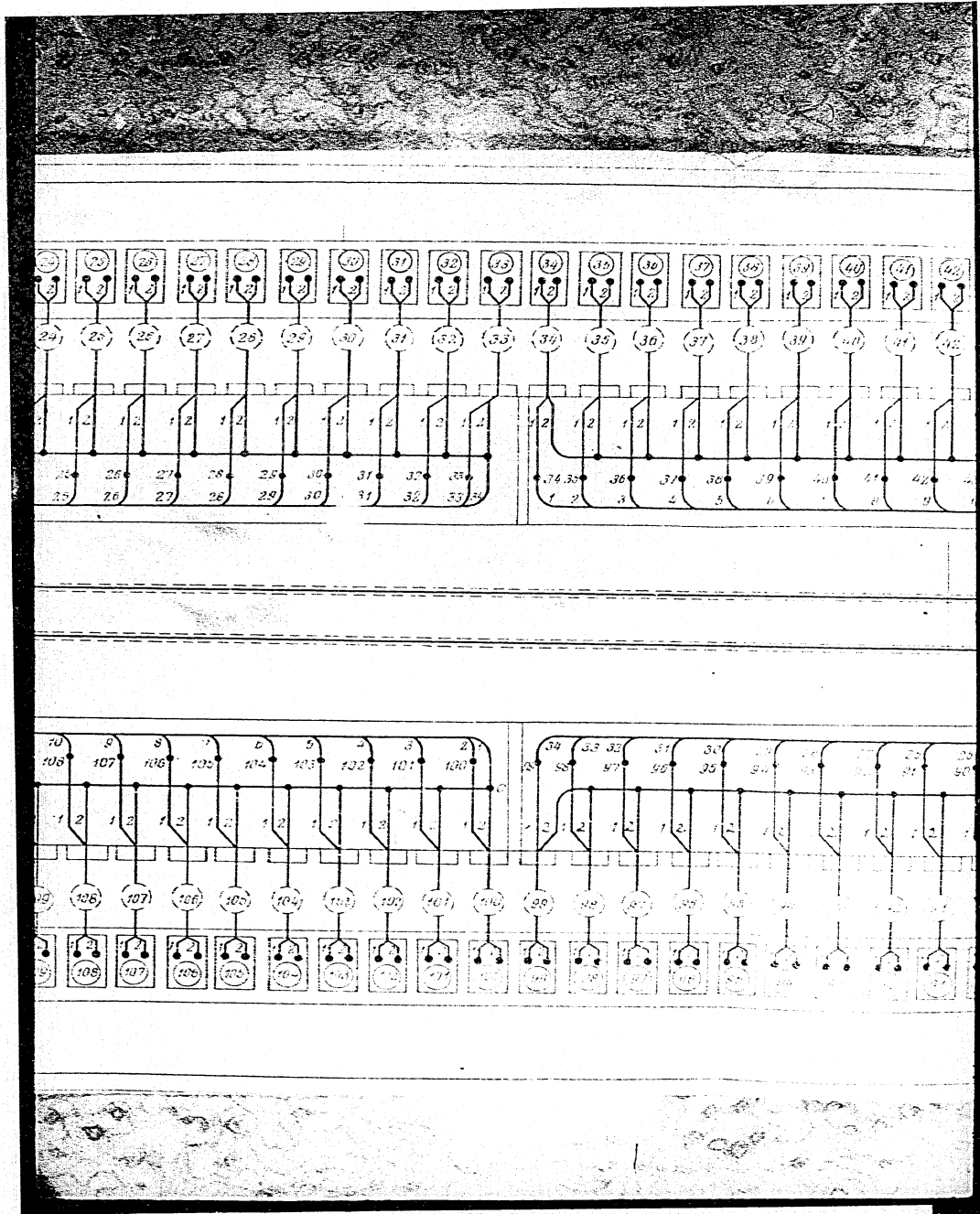
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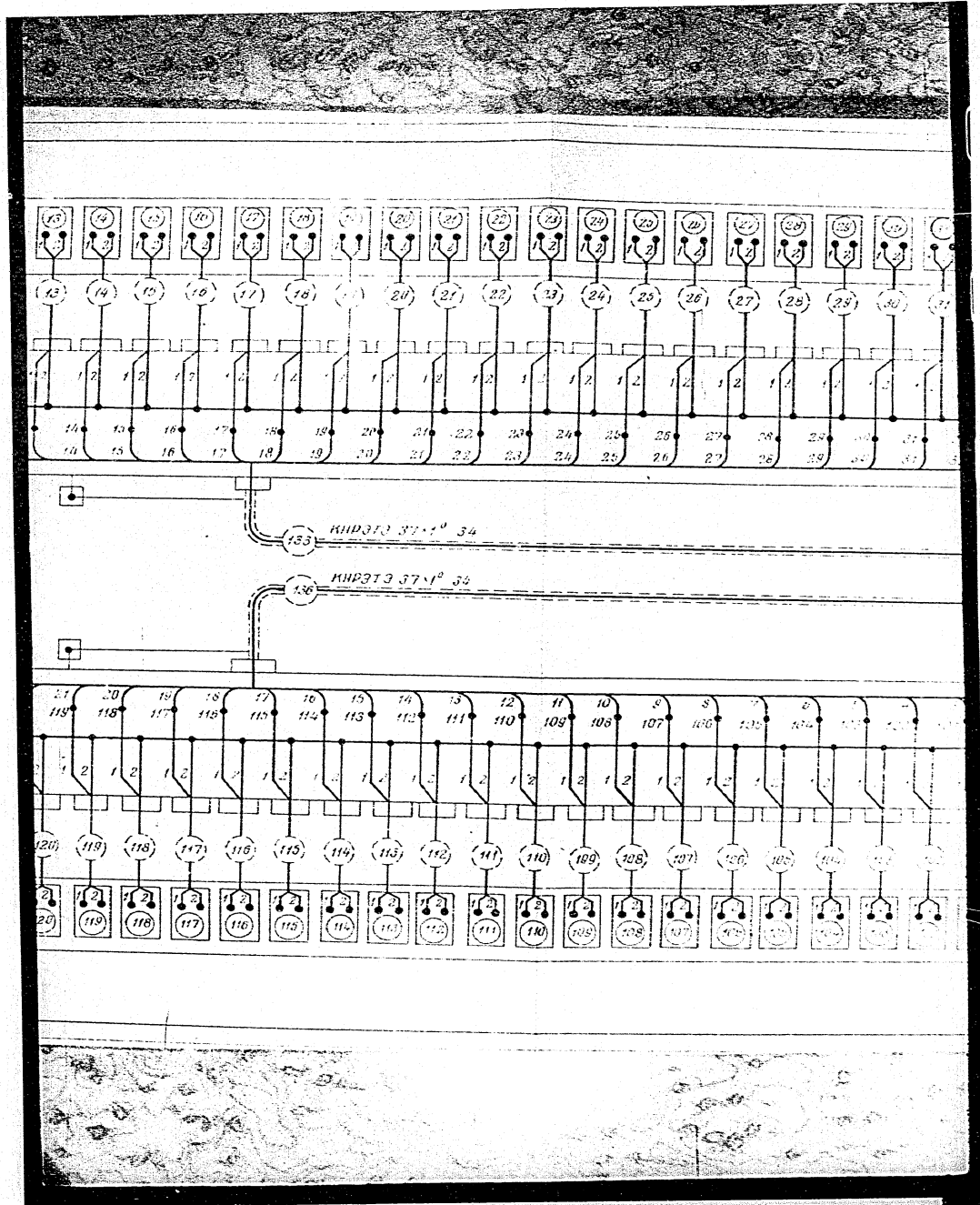
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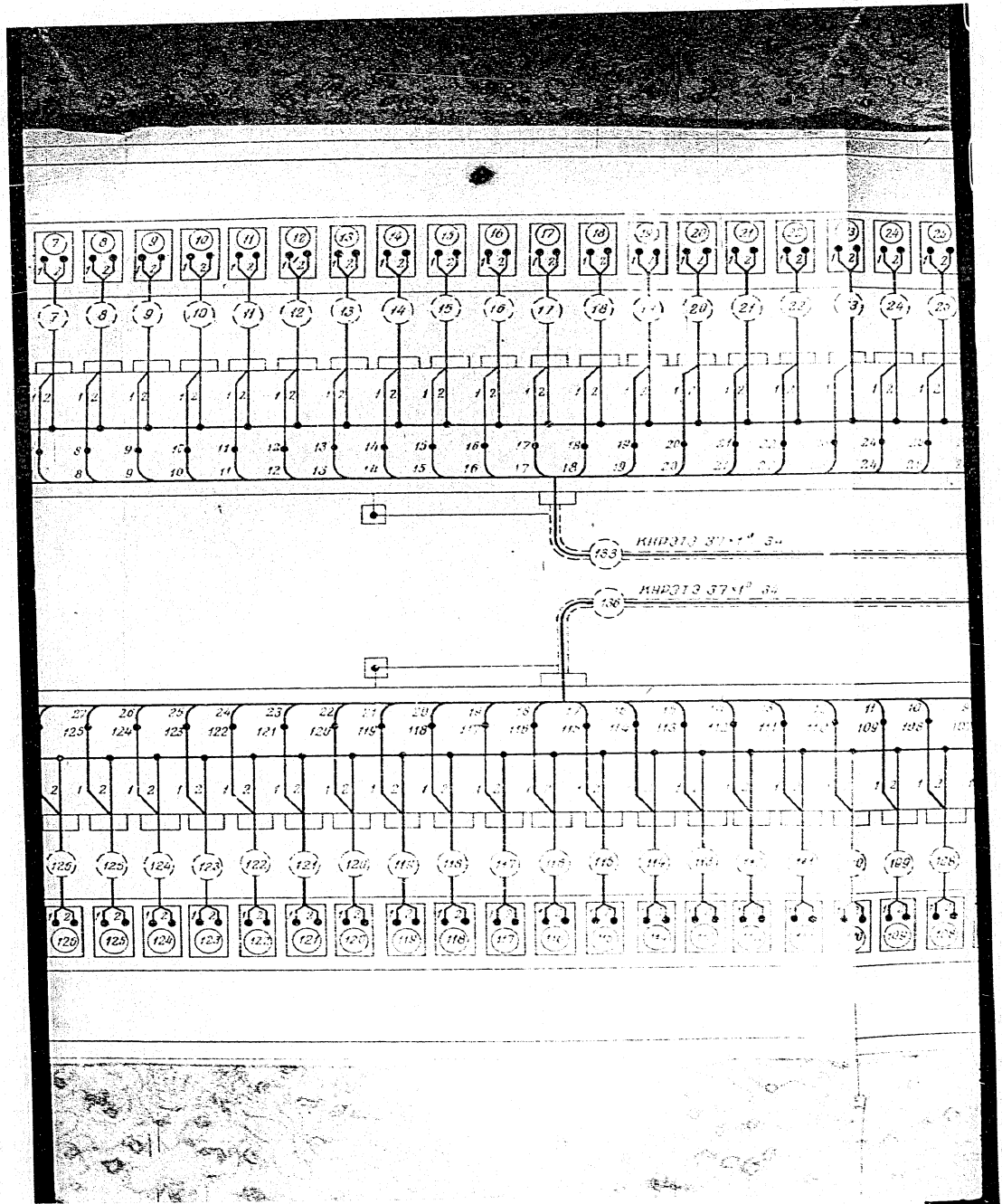
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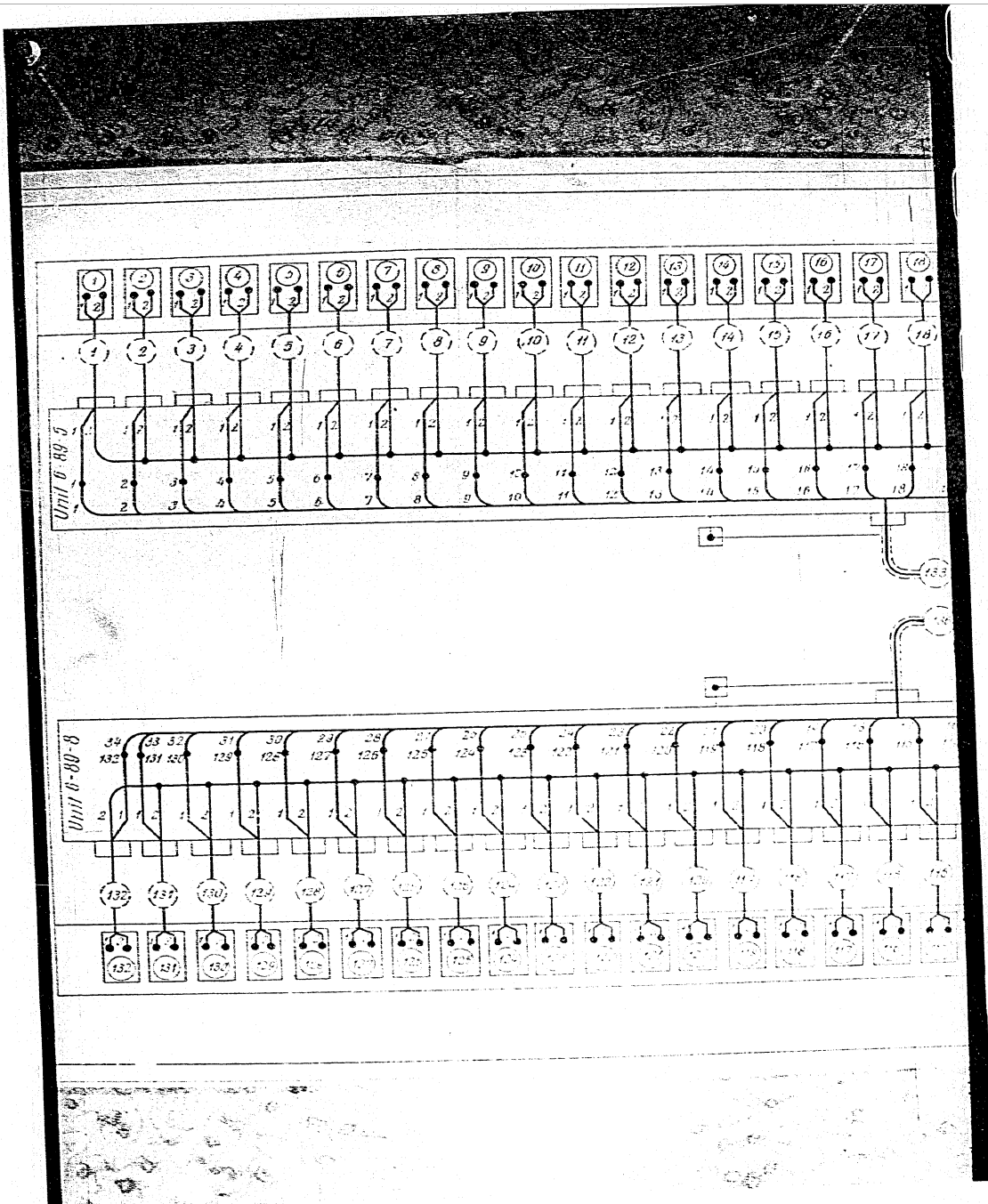
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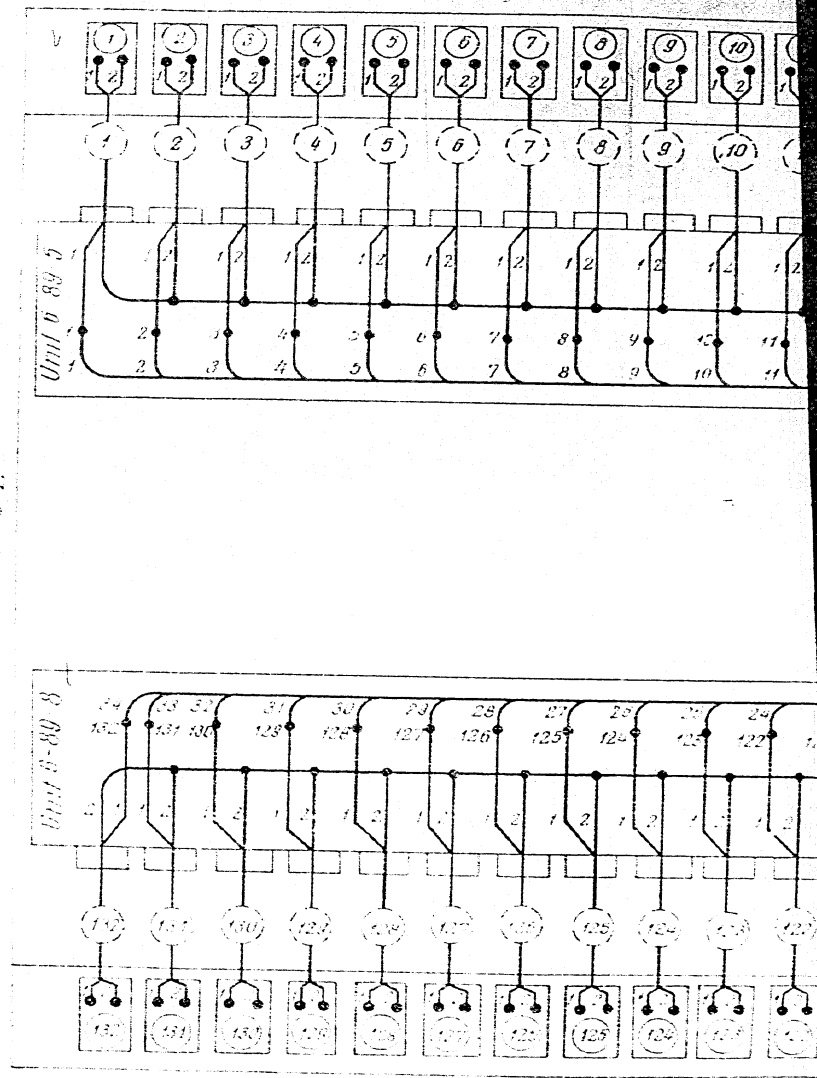
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50X1-HUM

Unit 4-73 2



50X1-HUM

50X1-HUM

Core No.	Core name	Runs from		Runs to		Note
		Plate No.	Term. No.	Plate No.	Term. No.	
16	Signal		49	9	9	
17	Signal		50	9	10	
18	Signal		51	11	1	
19	Signal		52	11	2	
20	Signal		53	11	3	
21	Signal		54	11	4	
22	Signal		55	11	5	
23	Signal		56	11	6	
24	Signal		57	11	7	
25	Signal		58	11	8	
26	Signal		59	11	9	
27	Signal		60	11	10	
28	Signal		61	13	1	
29	Signal		62	13	2	
30	Signal		63	13	3	
31	Signal		64	13	4	
32	Signal		65	13	5	
33	Signal		66	13	6	
34	Signal		0	13	8	

Cable No. 135

KHPOT 37x1

34

From unit 6-89-7
To unit 8A

1	Signal		0	13	7	
2	Signal		67	1	1	
3	Signal		68	1	2	
4	Signal		69	1	3	
5	Signal		70	1	4	
6	Signal		71	1	5	
7	Signal		72	1	6	
8	Signal		73	1	7	
9	Signal		74	1	8	
10	Signal		75	1	9	
11	Signal		76	1	10	
12	Signal		77	3	1	
13	Signal		78	3	2	
14	Signal		79	3	3	
15	Signal		80	3	4	
16	Signal		81	3	5	
17	Signal		82	3	6	
18	Signal		83	3	7	

31

50X1-HUM

50X1-HUM

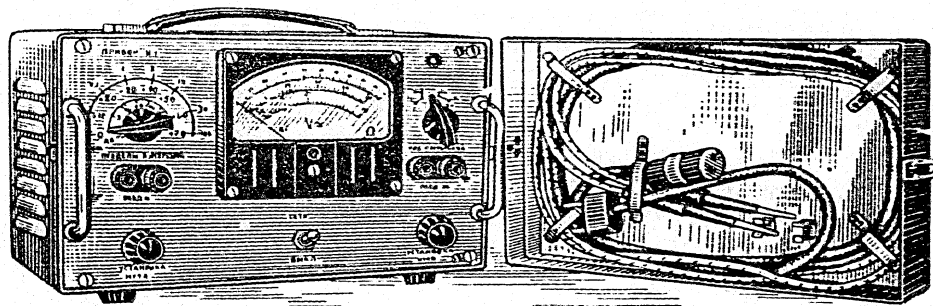


FIG. 2. FRONT VIEW OF THE METER

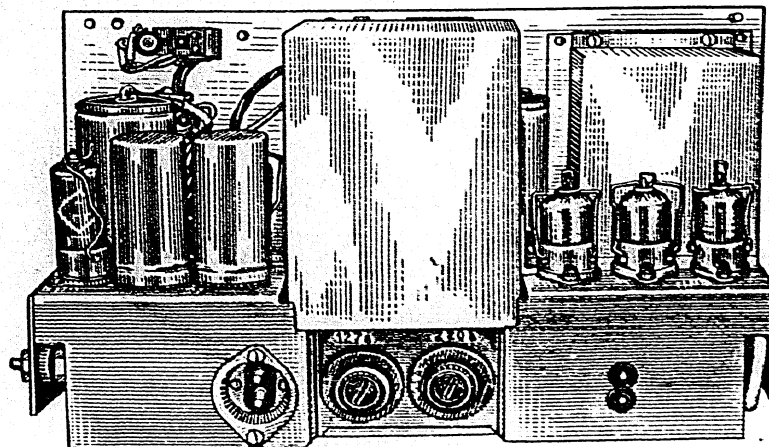
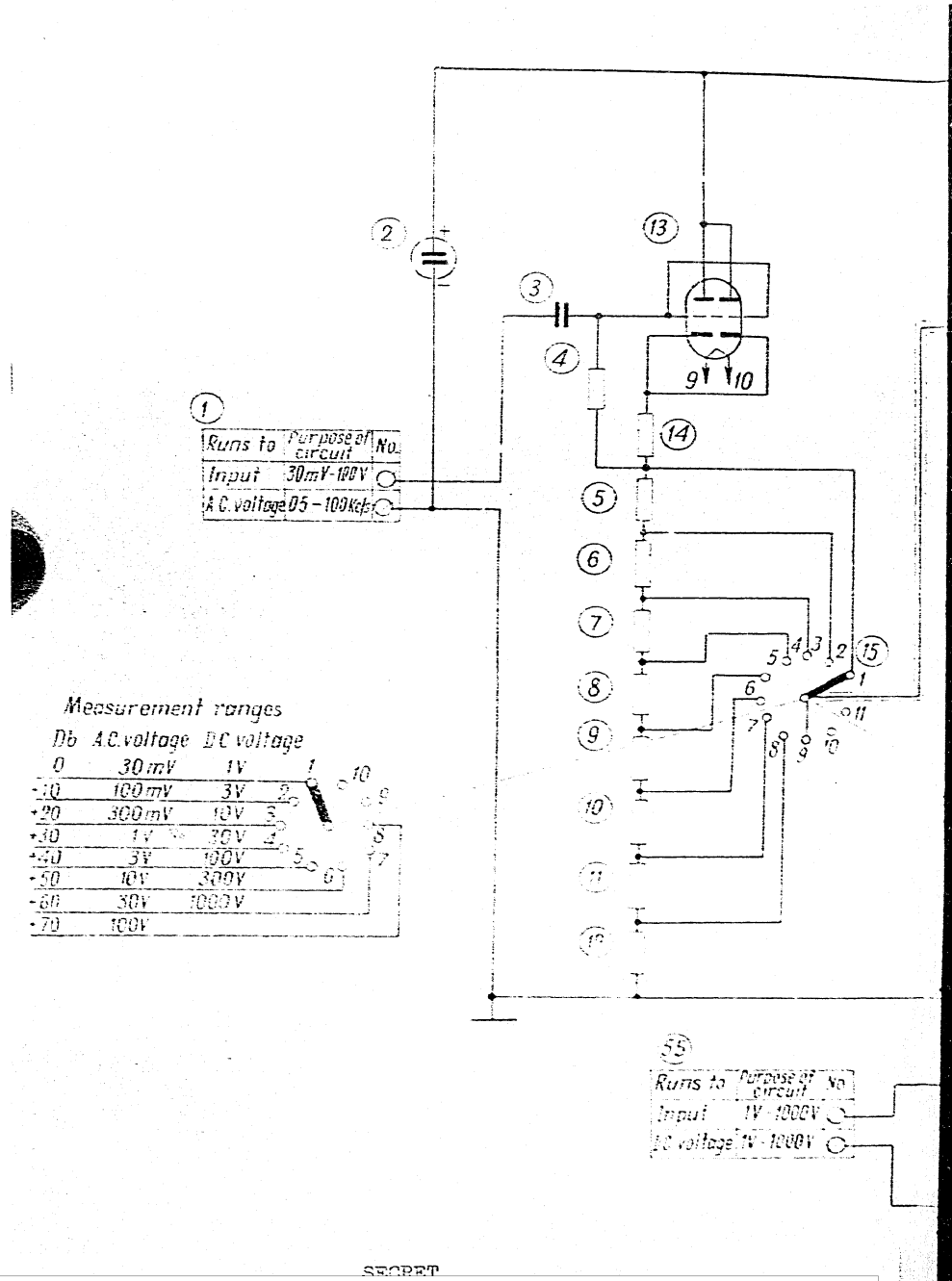


FIG. 3. REAR VIEW OF THE METER (WITH CASING REMOVED)

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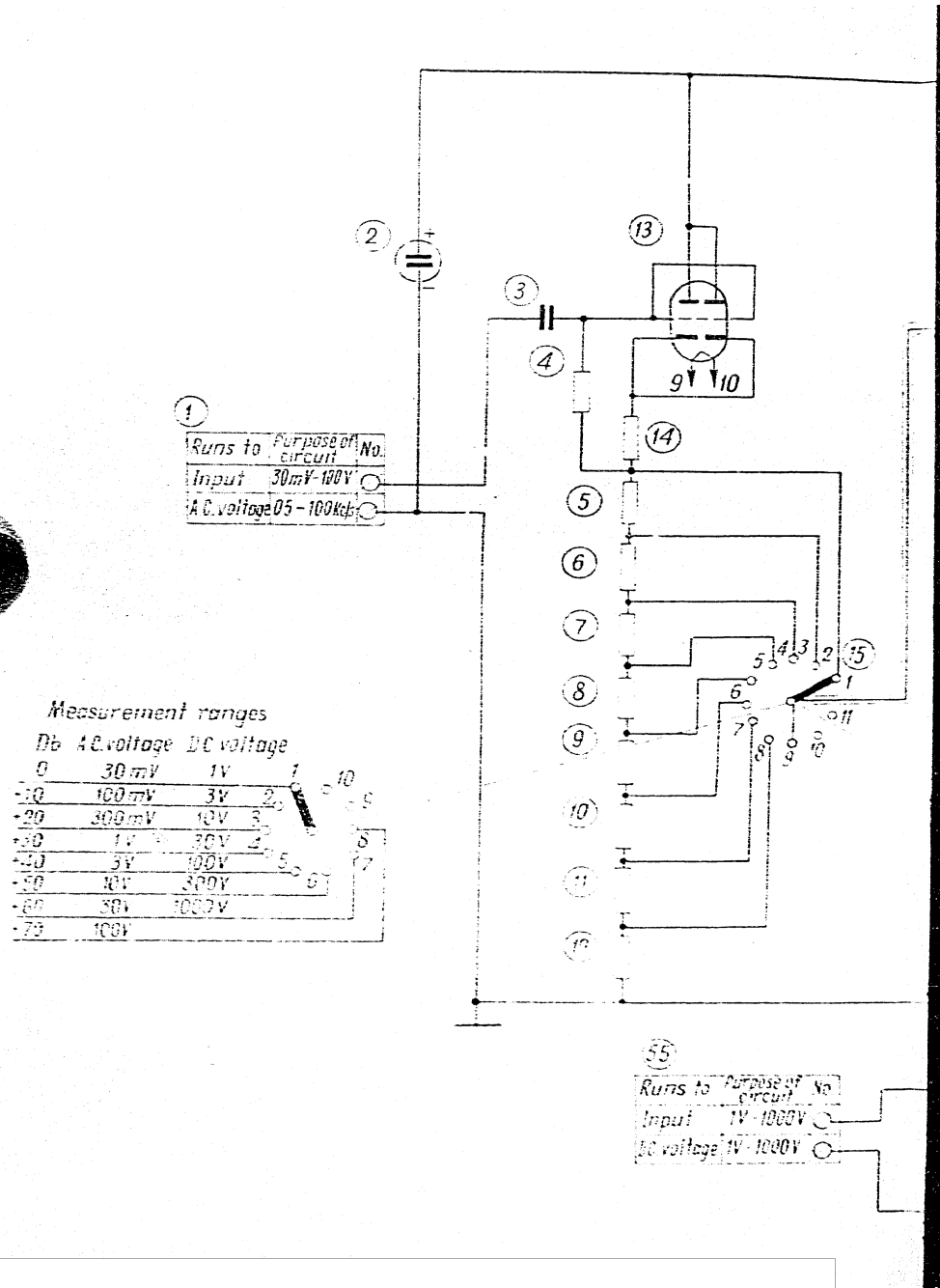
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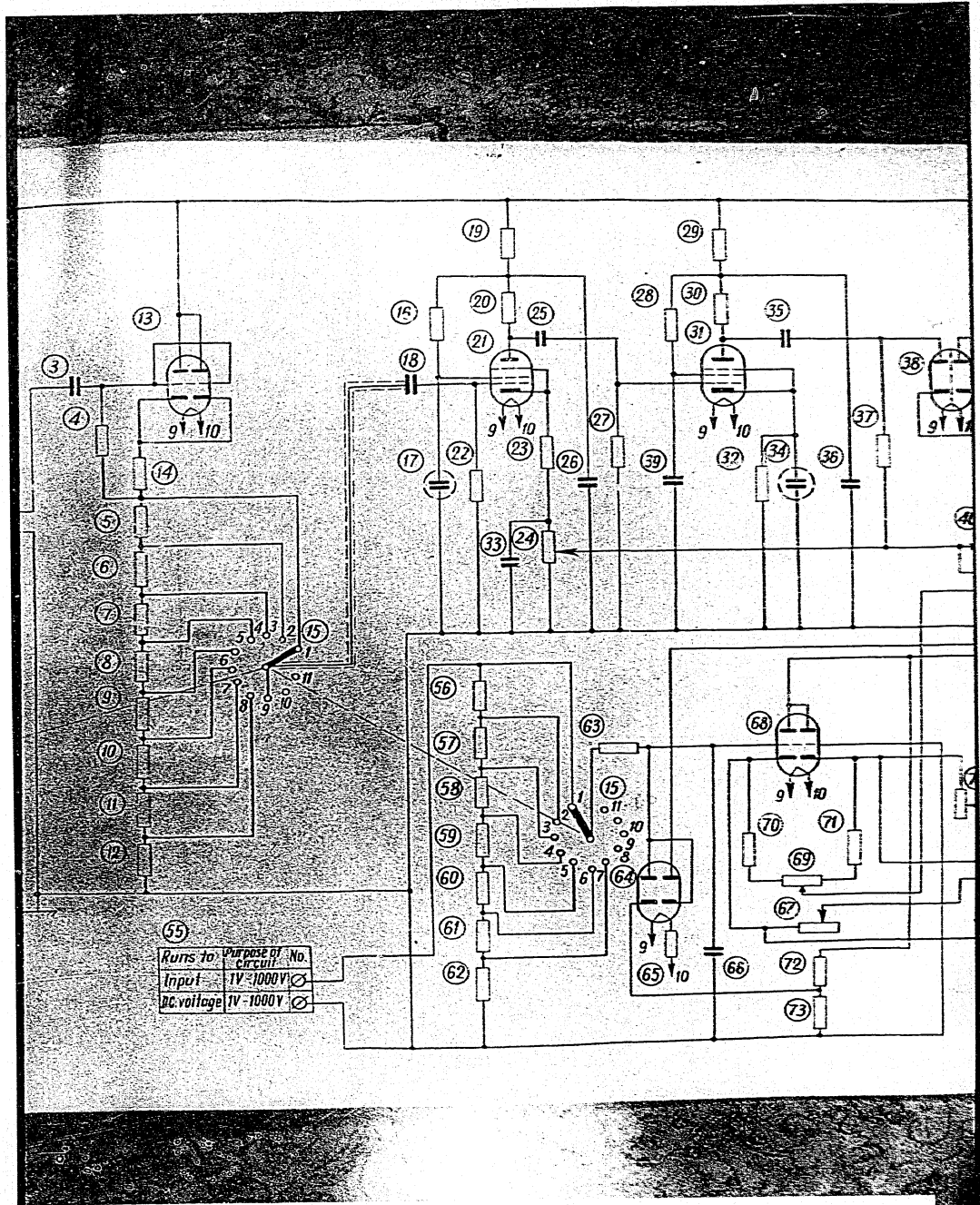
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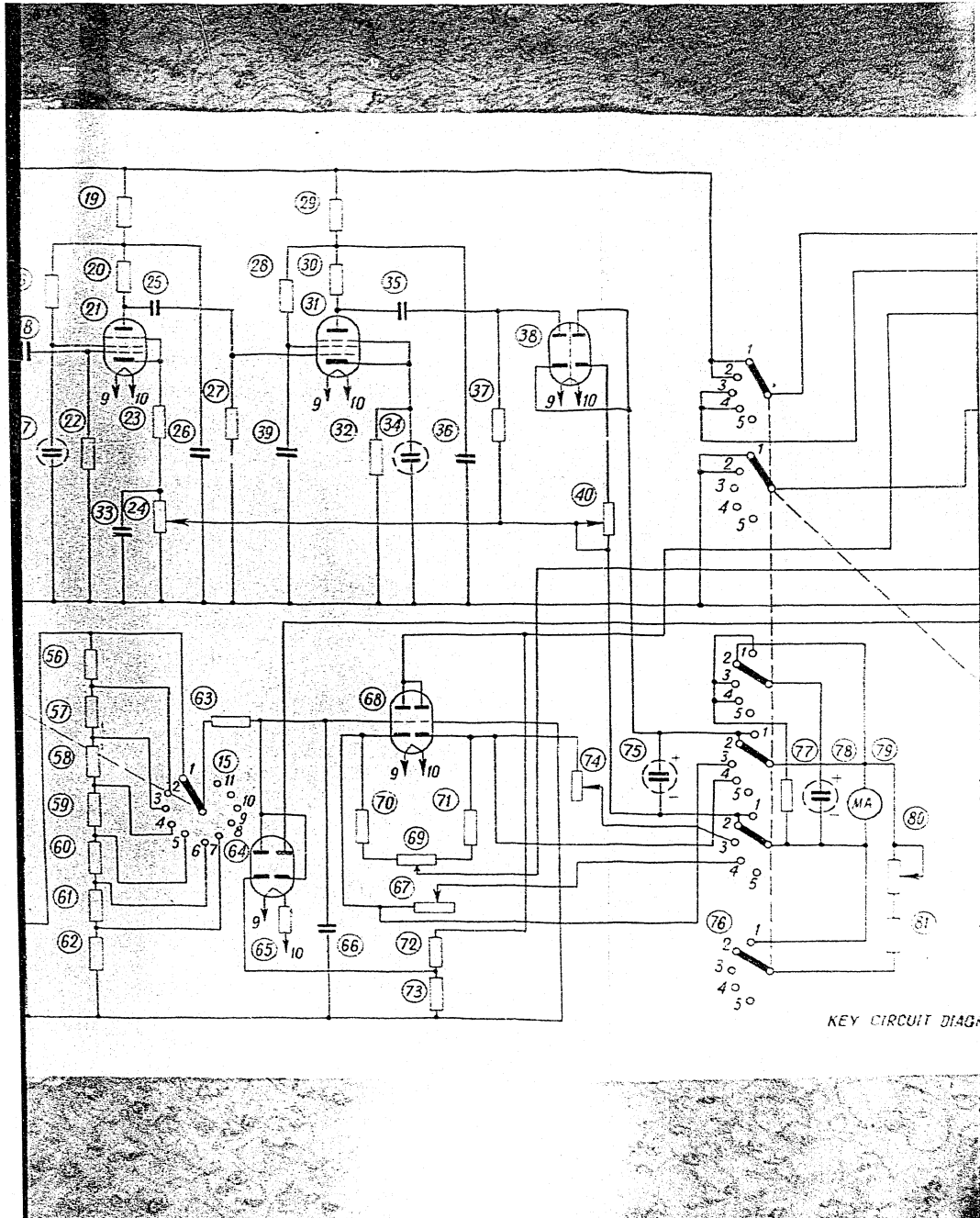
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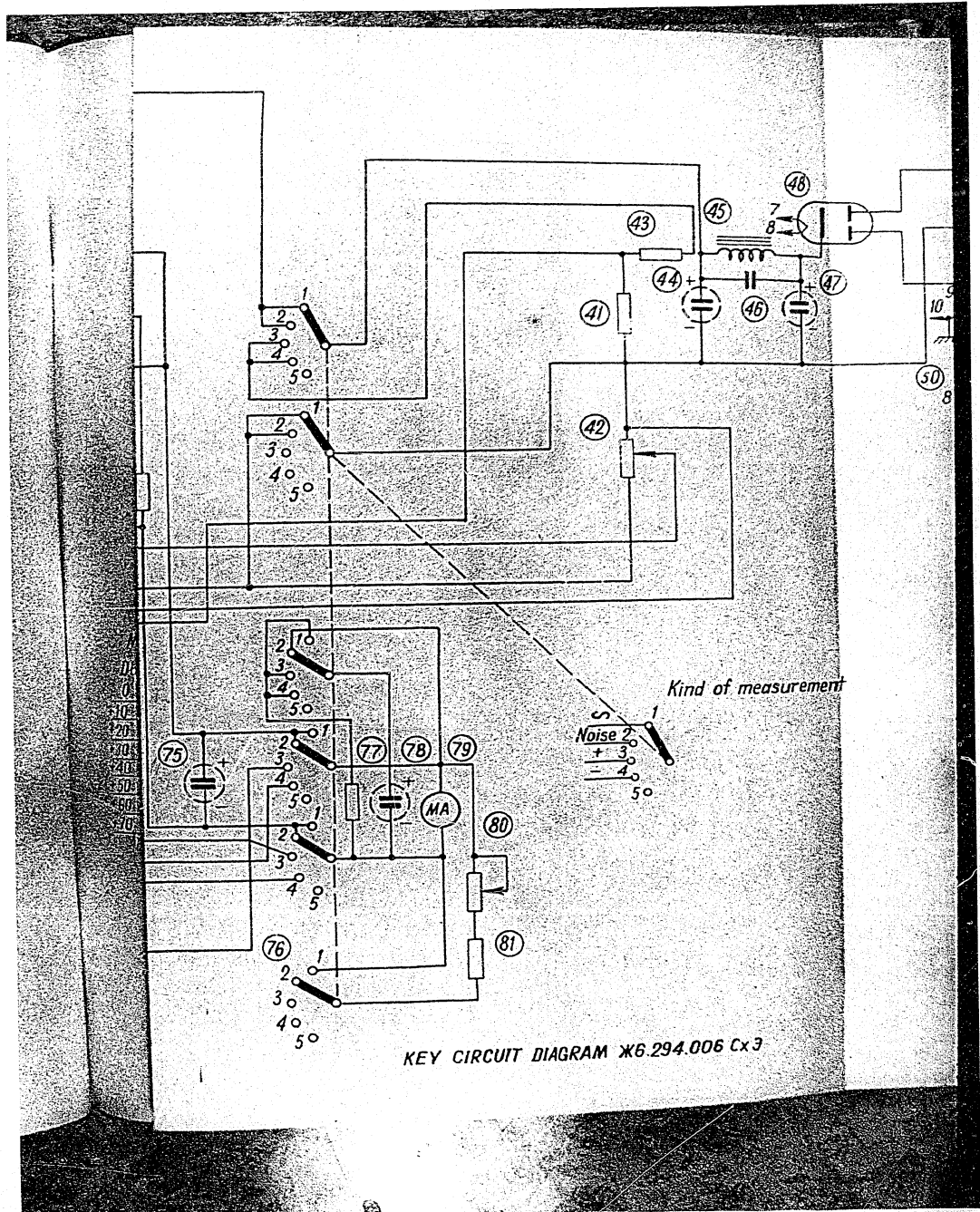
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